Building a Smarter Tomorrow

2025 Product Catalog 1H

GIGAIPC™ GIGABYTE™ GROUP Intel partner Titanium IoT Solutions

www.gigaipc.com

Company Profile

GIGAIPC

GIGAIPC, established in 2018 as an independent IPC-focused spin-off from GIGABYTE, is driven by a passion for technology and agile intuition of our customer's requirements. GIGAIPC has an exceptionally sophisticated Research & Development department, enabling us to keep up with the rapid pace of today's technology. Combined with our outstanding research and design ability, GIGAIPC also has an award-winning Taiwan-based manufacturing facility, synchronizing with GIGAIPC's R&D department to deliver high quality and reliable products. GIGAIPC is a young and energetic organization driven by surpassing our customer's expectations, and we promise to offer our customers not only high-quality computing platforms but also world-class service and support. As a result, GIGAIPC's service centers have been established in most major cities worldwide, and our global presence is still being actively expanding, all ready to offer the best service to our customers.

GIGAIPC GIGABYTE GROUP

GIGAIPC is an Associate member of the Intel® Internet of Things Solutions Alliance.

"Building a SMARTER Tomorrow"

The strengths of GIGAIPC are based on the advantages, skills and expertise we have built to realize this vision, including being customer focused and striving for high quality. GIGAIPC is determined to keep reinforcing these strengths as our principles to achieve maximum customer satisfaction.

Key Advantages to work with GIGAIPC

Technology	1. Intel®, AMD etc. Key vendor direct support 2. Latest technical and over 10 years RD development experiences 3. Large coverage rate of design verification
Flexibility	1. Huge off-the-shelf products combination and rich ODM/OEM experiences 2. Multiple manufacturing sites for different high-mix and low-volume requirements 3. Task-force team with multiple functions to align customer's requirements
Quality	1. Component IPC, audit and approval system 2. Rich resources and equipments on design and manufacture quality system 3. Emphasizing closed-loop of PDCA cycle for continuous improvement
Service	1. Worldwide RMA service coverage more than 80 service centers globally
Capability	1. Customization capability 2. Direct field application engineer support and quick response 3. Customized manufacturing process, quality control and delivery solutions

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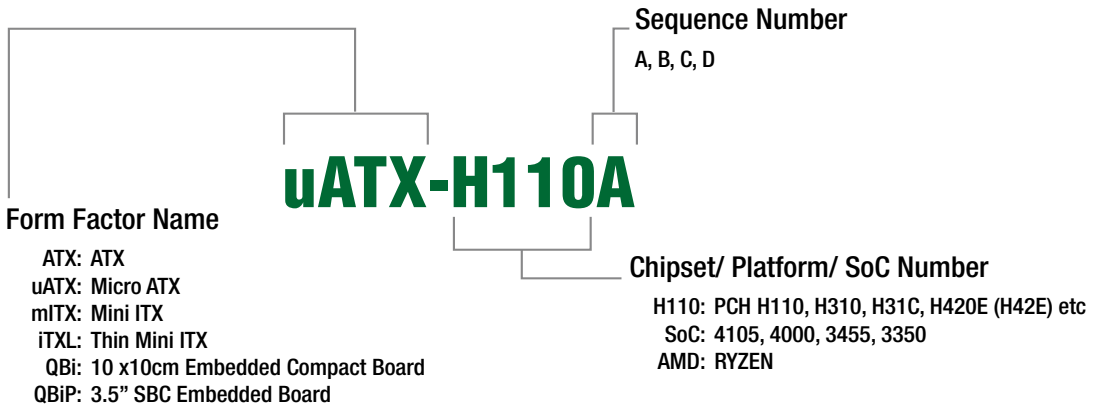
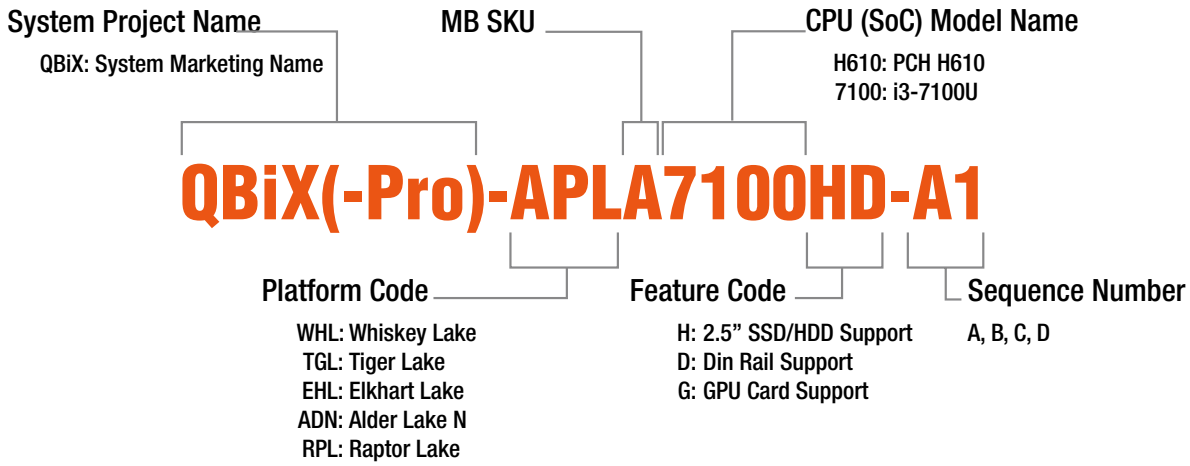
Product's Naming Rule

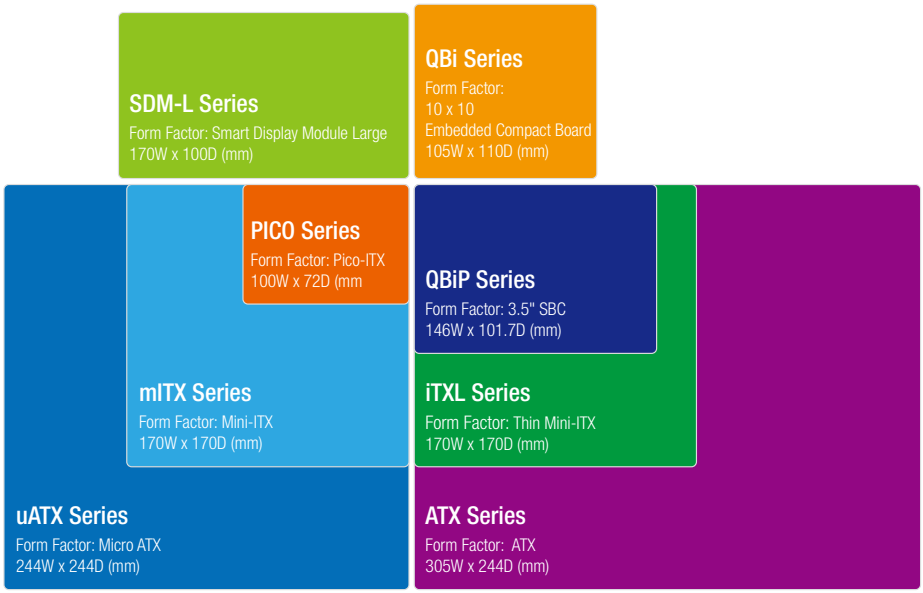
Motherboard's Naming Rule -



System's Naming Rule -



Motherboard's Form Factor -



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QBiX Series

New

Model Name	QBiX-RPLA1355H-A1 QBiX-RPLA1335H-A1 QBiX-RPLA1315EH-A1	QBiX-TGLA1135G7-A1 QBiX-TGLA1115G4E-A1	QBiX-WHLA8565H-A1 QBiX-WHLA8265H-A1 QBiX-WHLA8145H-A1
Dimension	138W x 118D x 74.2H (mm)	138W x 118D x 74.2H (mm)	138W x 118D x 74.2H (mm)
CPU	Intel® Core™ i7-1355U Processor Intel® 7, 10 cores, 2P+8E, 12 threads, up to 5.0 GHz Intel® Core™ i5-1335U Processor Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.6 GHz Intel® Core™ i3-1315UE Processor, Intel® 7, 6 cores, 2P+8E, 8 threads, up to 4.5 GHz	Intel® Core™ i5-1135G7 Processor 10nm SuperFin, 4 cores, 8 threads, up to 4.2 GHz Intel® Core™ i3-1115G4E Processor, 10nm SuperFin, 2 cores, 4 threads, up to 3.90 GHz	Intel® Core™ i7-8565U Processor, 14nm, 4 cores, 8 threads, up to 4.6 GHz Intel® Core™ i5-8265U Processor, 14nm, 4 cores, 8 threads, up to 3.9 GHz Intel® Core™ i3-8145UE Processor, 14nm, 2 cores, 4 threads, up to 3.9 GHz
Chipset	SoC	SoC	SoC
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 5200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2400 MHz
Ethernet	1 x GbE LAN Port (Realtek® RTL8111H) 1 x 2.5GbE LAN Port (Intel® I226V)	2 x GbE LAN Ports (Intel® I219V and Realtek® RTL8111HS)	2 x GbE LAN Ports (Intel® I219V and Realtek® RTL8111HS)
Graphic	Integrated Graphics Processor - Intel® Iris® Xe Graphics eligible/ UHD Graphics for 13th Gen Intel® Processors: 2 x HDMI 2.0, 1 x DP 1.4 through USB Type C (DP Alt. mode) 3 independent display outputs	Integrated Graphics Processor - Intel® Iris® Xᵉ Graphics: 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics 620: 2 x HDMI 1.4 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5” HDD/SSD (SATA 6Gb/s)	—	1 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen 4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Vertical USB 3.2 Gen 1
Front I/O	2 x USB 3.2 Gen 2x1 1 x USB 3.2 Type C with DP 1.4b (DP Alt. mode) 1 x Power button with LED 1 x HDD LED 1 x COM Port (RS-232/422/845) 1 x Combo Audio Jack (Headphone & Headset)	2 x USB 3.2 Gen 2x1 1 x Power button with LED 2 x External Antenna Holes (Optional) 1 x HDD LED 1 x COM Port (RS-232/422/845) 1 x Headphone Jack	2 x USB 3.2 Gen 2x1 1 x Power button with LED 2 x External Antenna Holes (Optional) 1 x HDD LED 1 x COM Port (RS-232/422/845) 1 x Headphone Jack
Rear I/O	2 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 1 x Screw type DC Jack 2 x External Antenna Holes (Optional)	2 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 1 x Screw type DC Jack	2 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 1 x Screw Type DC Jack
Side I/O	—	—	—
TPM	Onboard TPM 2.0 security chip INFINEON SLB9672VU2.0	—	—
Power	+12V~24VDC (Adapter 19.5V/135W)	+9V~48VDC (Adapter 19.5V/135W)	+9V~36VDC (Adapter 19V/90W)
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C
Mounting	Wall mount	Wall mount	Wall mount
Ordering Information	6BQB1355AMR-SI (Box packing) 6BQB1335AMR-SI (Box packing) 6BQB1315AMR-SI (Box packing)	6BQB1135AMR-SI (Box packing) 6BQB1115AMR-SI (Box packing)	6BQB8565AMR-SI (Box packing) 6BQB8265AMR-SI (Box packing) 6BQB8145AMR-SI (Box packing)
Built-in Components	—	—	—

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QBiX Series

Model Name	QBiX-ADNAN97-A1	QBiX-EHLA6412-A1
Dimension	118W x 109.4D x 44.4H (mm)	118W x 109.4D x 44.4H (mm)
CPU	Intel® Processor N97, Intel® 7, 4 cores, up to 3.6 GHz	Intel® Celeron® J6412 Processor, 10nm, 4 cores, 4 threads, up to 2.6 GHz
Chipset	SoC	SoC
Memory	1 x DDR5 SO-DIMM socket, Max. Capacity 16 GB, Support Single Channel DDR5 4800 MHz	1 x DDR4 SO-DIMM socket, Max. Capacity 32 GB, Support Single Channel DDR4 3200 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics : 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors : 2 x HDMI 2.0 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	—	—
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen 3x1, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Front I/O	2 x USB 3.2 Gen 2x1 1 x COM Port (RS-232) 1 x Combo Audio Jack (Headphone & Headset) 1 x Power button with LED	2 x USB 3.2 Gen 2x1 1 x COM Port (RS-232) 1 x Combo Audio Jack (Headphone & Headset) 1 x Power button with LED
Rear I/O	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x HDMI 2 x External Antenna Holes (Optional) 1 x Screw Type DC Jack	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x HDMI 2 x External Antenna Holes (Optional) 1 x Screw Type DC Jack
Side I/O	—	—
TPM	Onboard TPM 2.0 security chip NUVOTON NPCT760AABYX	—
Power	+12V~19VDC (Adapter 19V/65W)	+12V~19VDC (Adapter 19V/65W)
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	VESA 75/100	VESA 75/100
Ordering Information	6BQBN970AMR-SI (Box packing)	6BQB6412AMR-SI (Box packing)
Built-in Components	—	—

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QBiX Series

Model Name	QBiX-EHLB6412-A1	QBiX-GLKB4125-A1
Dimension	118W x 109.4D x 44.4H (mm)	118W x 109.4D x 44.4H (mm)
CPU	Intel® Celeron® J6412 Processor, 10nm, 4 cores, 4 threads, up to 2.6 GHz	Intel® Celeron® J4125 Processor, 14nm, 4 cores, 4 threads, up to 2.7 GHz
Chipset	SoC	SoC
Memory	1 x DDR4 SO-DIMM socket, Max. Capacity 32 GB, Support Single Channel DDR4 3200 MHz	1 x DDR4 SO-DIMM socket, Max. Capacity 8 GB, Support Single Channel DDR4 2400 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Intel® I211AT and Realtek® RTL8111HS)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors : 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics 600: 2 x HDMI 1.4 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	—	—
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Front I/O	2 x USB 3.2 Gen 2x1 1 x COM Port (RS-232) 1 x Combo Audio Jack (Headphone & Headset) 1 x Power button with LED	2 x USB 3.2 Gen 1 1 x COM Port (RS-232) 1 x Headphone Jack 1 x Power button with LED
Rear I/O	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x HDMI 2 x External Antenna Holes (Optional) 1 x Screw Type DC Jack	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1 2 x HDMI 2 x External Antenna Holes (Optional) 1 x Screw Type DC Jack
Side I/O	—	—
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	—
Power	+12V~19VDC (Adapter 19V/65W)	+12V~19VDC (Adapter 19V/65W)
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	VESA 75/100	VESA 75/100
Ordering Information	6BQB6412BMR-SI (Box packing)	6BQB4125AMR-SI (Box packing)
Built-in Components	—	—

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QBiX-Pro Series

Preliminary

Preliminary

Model Name	QBiX-Pro-MTLA155H-A1 QBiX-Pro-MTLA125H-A1	QBiX-Pro-MTLA155H-A2 QBiX-Pro-MTLA125H-A2
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	Intel® Core™ Ultra 7 Processor 155U, Intel® 4, 12 cores, 2P+8E, 14 threads, up to 4.8 GHz Intel® Core™ Ultra 5 Processor 125U, Intel® 4, 12 cores, 2P+8E, 14 threads, up to 4.3 GHz	Intel® Core™ Ultra 7 Processor 155U, Intel® 4, 12 cores, 2P+8E, 14 threads, up to 4.8 GHz Intel® Core™ Ultra 5 Processor 125U, Intel® 4, 12 cores, 2P+8E, 14 threads, up to 4.3 GHz
Chipset	SoC	SoC
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 5600 MHz	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 5600 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V/I226LM)	2 x 2.5GbE LAN Ports (Intel® I226V/I226LM)
Graphic	Integrated Graphics Processor - Intel® Graphics: 2 x HDMI 2.0 (CEC) 2 independent display outputs	Integrated Graphics Processor - Intel® Graphics: 2 x HDMI 2.0 (CEC) 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Front I/O	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x External Antenna Hole (Optional)	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x External Antenna Hole (Optional)
Rear I/O	2 x USB 2.0 2 x COM Ports (RS-232/422/485) 1 x GPIO (8 bits) 1 x Headphone Jack 1 x Remote control 1 x 3-pin Terminal Block	2 x USB 2.0 2 x COM Ports (RS-232/422/485) 1 x GPIO (8 bits) 1 x Headphone Jack 1 x Remote control 1 x Screw Type DC Jack
Side I/O	2 x External Antenna Holes (Optional)	2 x External Antenna Holes (Optional)
TPM	Onboard TPM 2.0 security chip IINFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Power	A1: +12V~36VDC (Full Range)	A2: +12V~36VDC (Adapter 19V/135W)
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Optional) / VESA mount (Optional)	Wall mount (Optional) / VESA mount (Optional)
Ordering Information	6BQP155UAMR-SI (Box packing) 6BQP125UAMR-SI (Box packing)	6BQP155UAMR-SI (Box packing) 6BQP125UAMR-SI (Box packing)
Built-in Components	—	—

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QBiX-Pro Series

Model Name	QBiX-Pro-RPLA1355H-A1 QBiX-Pro-RPLA1335H-A1 QBiX-Pro-RPLA1315EH-A1	QBiX-Pro-RPLA1355H-A2 QBiX-Pro-RPLA1335H-A2 QBiX-Pro-RPLA1315EH-A2
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	Intel® Core™ i7-1355U Processor, Intel® 7, 10 cores, 2P+8E, 12 threads, up to 5.0 GHz Intel® Core™ i5-1335U Processor, Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.6 GHz Intel® Core™ i3-1315UE Processor, Intel® 7, 6 cores, 2P+4E, 8 threads, up to 4.5 GHz	Intel® Core™ i7-1355U Processor, Intel® 7, 10 cores, 2P+8E, 12 threads, up to 5.0 GHz Intel® Core™ i5-1335U Processor, Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.6 GHz Intel® Core™ i3-1315UE Processor, Intel® 7, 6 cores, 2P+4E, 8 threads, up to 4.5 GHz
Chipset	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V)	2 x 2.5GbE LAN Ports (Intel® I226V)
Graphic	Integrated Graphics Processor - Intel® Iris® Xe/UHD Graphics for 13th Gen Intel® Processors: 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® Iris® Xe/UHD Graphics for 13th Gen Intel® Processors: 2 x HDMI 2.0 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe Gen4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Front I/O	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x External Antenna Hole (Optional)	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x External Antenna Hole (Optional)
Rear I/O	2 x USB 2.0 2 x COM Ports (RS-232/422/485) 1 x GPIO (8 bits) 1 x Headphone Jack 1 x 3-pin Terminal Block	2 x USB 2.0 2 x COM Ports (RS-232/422/485) 1 x GPIO (8 bits) 1 x Headphone Jack 1 x Screw Type DC Jack
Side I/O	2 x External Antenna Holes (Optional)	2 x External Antenna Holes (Optional)
TPM	Onboard TPM 2.0 security chip IINFINEON SLB9672VU2.0	Onboard TPM 2.0 security chip INFINEON SLB9672VU2.0
Power	A1: +9V~36VDC (Full Range)	A2: +9V~36VDC (Adapter 19.5V/135W)
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Optional) / VESA mount (Optional)	Wall mount (Optional) / VESA mount (Optional)
Ordering Information	6BQP1355AMR-SI (Box packing) 6BQP1335AMR-SI (Box packing) 6BQP1315AMR-SI (Box packing)	6BQP1355AMR-SI (Box packing) 6BQP1335AMR-SI (Box packing) 6BQP1315AMR-SI (Box packing)
Built-in Components	—	—

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QBiX-Pro Series

Model Name	QBiX-Pro-ADLA1255H-A1 QBiX-Pro-ADLA1235H-A1 QBiX-Pro-ADLA1215EH-A1	QBiX-Pro-ADLA1255H-A2 QBiX-Pro-ADLA1235H-A2 QBiX-Pro-ADLA1215EH-A2
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	Intel® Core™ i7-1255U Processor, Intel® 7, 10 cores, 12 threads, up to 4.7 GHz Intel® Core™ i5-1235U Processor, Intel® 7, 10 cores, 12 threads, up to 4.4 GHz Intel® Core™ i3-1215UE Processor, Intel® 7, 6 cores, 8 threads, up to 4.4 GHz	Intel® Core™ i7-1255U Processor, Intel® 7, 10 cores, 12 threads, up to 4.7 GHz Intel® Core™ i5-1235U Processor, Intel® 7, 10 cores, 12 threads, up to 4.4 GHz Intel® Core™ i3-1215UE Processor, Intel® 7, 6 cores, 8 threads, up to 4.4 GHz
Chipset	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V)	2 x 2.5GbE LAN Ports (Intel® I226V)
Graphic	Integrated Graphics Processor - Intel® Iris® Xe/UHD Graphics : 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® Iris® Xe/UHD Graphics : 2 x HDMI 2.0 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe Gen4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Front I/O	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x External Antenna Hole (Optional)	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x External Antenna Hole (Optional)
Rear I/O	2 x USB 2.0 2 x COM Ports (RS-232/422/485) 1 x GPIO (8 bits) 1 x Headphone Jack 1 x 3-pin Terminal Block	2 x USB 2.0 2 x COM Ports (RS-232/422/485) 1 x GPIO (8 bits) 1 x Headphone Jack 1 x Screw Type DC Jack
Side I/O	2 x External Antenna Holes (Optional)	2 x External Antenna Holes (Optional)
TPM	—	—
Power	A1: +9V~36VDC (Full Range)	A2: +9V~36VDC (Adapter 19.5V/135W)
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Optional) / VESA mount (Optional)	Wall mount (Optional) / VESA mount (Optional)
Ordering Information	6BQP1255AMR-SI (Box packing) 6BQP1235AMR-SI (Box packing) 6BQP1215AMR-SI (Box packing)	6BQP1255AMR-SI (Box packing) 6BQP1235AMR-SI (Box packing) 6BQP1215AMR-SI (Box packing)
Built-in Components	—	—

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QBiX-Pro Series

Model Name	QBiX-Pro-TGLA1135G7H-A1 QBiX-Pro-TGLA1115G4EH-A1	QBiX-Pro-TGLA1135G7H-A2 QBiX-Pro-TGLA1115G4EH-A2
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	Intel® Core™ i5-1135G7 Processor, 10nm SuperFin, 4 cores, 8 threads, up to 4.2 GHz Intel® Core™ i3-1115G4E Processor, 10nm SuperFin, 2 cores, 4 threads, up to 3.9 GHz	Intel® Core™ i5-1135G7 Processor, 10nm SuperFin, 4 cores, 8 threads, up to 4.2 GHz Intel® Core™ i3-1115G4E Processor, 10nm SuperFin, 2 cores, 4 threads, up to 3.9 GHz
Chipset	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® Iris Xe/UHD Graphics for 11th Gen Intel® Processors : 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® Iris Xe/UHD Graphics for 11th Gen Intel® Processors : 2 x HDMI 2.0 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Front I/O	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x COM Port (RS-232/422/485 & RI/5V/12V)	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x COM Port (RS-232/422/485 & RI/5V/12V)
Rear I/O	2 x USB 2.0 2 x COM Ports (RS-232/422/485) 1 x GPIO (8 bits) 1 x Headphone Jack 1 x 3-pin Terminal Block	2 x USB 2.0 2 x COM Ports (RS-232/422/485) 1 x GPIO (8 bits) 1 x Headphone Jack 1 x Screw Type DC Jack
Side I/O	2 x External Antenna Holes (Optional)	2 x External Antenna Holes (Optional)
TPM	—	—
Power	A1: +9V~36VDC (Full Range)	A2: +9V~36VDC (Adapter 19.5V/135W)
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Optional) / VESA mount (Optional)	Wall mount (Optional) / VESA mount (Optional)
Ordering Information	6BQP1135AMR-SI (Box packing) 6BQP1115AMR-SI (Box packing)	6BQP1135AMR-SI (Box packing) 6BQP1115AMR-SI (Box packing)
Built-in Components	—	—

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QBiX-Pro Series

Model Name	QBiX-Pro-WHLA8565H-A1 QBiX-Pro-WHLA8265H-A1 QBiX-Pro-WHLA8145H-A1	QBiX-Pro-WHLA8565H-A2 QBiX-Pro-WHLA8265H-A2 QBiX-Pro-WHLA8145H-A2
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	Intel® Core™ i7-8565U Processor, 14nm, 4 cores, 8 threads, up to 4.6 GHz Intel® Core™ i5-8265U Processor, 14nm, 4 cores, 8 threads , up to 3.9 GHz Intel® Core™ i3-8145UE Processor, 14nm, 2 cores, 4 threads, up to 3.9 GHz	Intel® Core™ i7-8565U Processor 14nm, 4 cores, 8 threads, up to 4.6 GHz Intel® Core™ i5-8265U Processor 14nm, 4 cores, 8 threads, up to 3.9 GHz Intel® Core™ i3-8145UE Processor 14nm, 2 cores, 4 threads, up to 3.9 GHz
Chipset	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2400 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2400 MHz
Ethernet	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics for 8th Gen Intel® Processors /UHD Graphics 620 : 2 x HDMI 1.4 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics for 8th Gen Intel® Processors /UHD Graphics 620 : 2 x HDMI 1.4 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Front I/O	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x COM Port (RS-232/422/485 & RI/5V/12V)	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x COM Port (RS-232/422/485 & RI/5V/12V)
Rear I/O	2 x USB 2.0 2 x COM Ports (RS-232) 1 x GPIO (8 bits) 1 x Headphone Jack 1 x 3-pin Terminal Block	2 x USB 2.0 2 x COM Ports (RS-232) 1 x GPIO (8 bits) 1 x Headphone Jack 1 x Screw Type DC Jack
Side I/O	2 x External Antenna Holes (Optional)	2 x External Antenna Holes (Optional)
TPM	—	—
Power	+9V~36VDC (Full Range)	+9V~36VDC (Adapter 19V/90W)
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Optional)	Wall mount (Optional)
Ordering Information	6BQP8565AMR-SI (Box packing) 6BQP8265AMR-SI (Box packing) 6BQP8145AMR-SI (Box packing)	6BQP8565AMR-SI (Box packing) 6BQP8265AMR-SI (Box packing) 6BQP8145AMR-SI (Box packing)
Built-in Components	—	—

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QBiX-Pro Series

Model Name	QBiX-Pro-KBLB7200H-A2	QBiX-Pro-KBLB7100H-A1	QBiX-Pro-KBLB3965H-A1
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	Intel® Core™ i5-7200U Processor, 14nm, 2 cores, 4 threads, up to 3.1 GHz	Intel® Core™ i3-7100U Processor, 14nm, 2 cores, 4 threads, 2.4 GHz	Intel® Celeron® 3965U Processor, 14nm, 2 cores, 2 threads, 2.2 GHz
Chipset	SoC	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2133 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2133 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2133 MHz
Ethernet	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® HD Graphics 620: 1 x HDMI 2.0 1 x Display Port 2 independent display outputs	Integrated Graphics Processor - Intel® HD Graphics 620: 1 x HDMI 2.0 1 x Display Port 2 independent display outputs	Integrated Graphics Processor - Intel® HD Graphics 610: 1 x HDMI 2.0 1 x Display Port 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Front I/O	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x HDMI 1 x Display Port 1 x Power switch 1 x Power & HDD LED 1 x COM Port (RS-232/422/485 & RI/5V/12V)	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x HDMI 1 x Display Port 1 x Power switch 1 x Power & HDD LED 1 x COM Port (RS-232/422/485 & RI/5V/12V)	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x HDMI 1 x Display Port 1 x Power switch 1 x Power & HDD LED 1 x COM Port (RS-232/422/485 & RI/5V/12V)
Rear I/O	2 x USB 2.0 3 x COM Ports (RS-232) 1 x Screw Type DC Jack	2 x USB 2.0 3 x COM Ports (RS-232) 1 x 3-pin Terminal Block	2 x USB 2.0 3 x COM Ports (RS-232) 1 x 3-pin Terminal Block
Side I/O	2 x External Antenna Holes (Optional)	2 x External Antenna Holes (Optional)	2 x External Antenna Holes (Optional)
TPM	—	—	—
Power	+9V~36VDC (Adapter 19V/65W)	+9V~36VDC (Full Range)	+9V~36VDC (Full Range)
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Optional)	Wall mount (Optional)	Wall mount (Optional)
Ordering Information	6BQP7200AMR-SI (Box packing)	6BCKACMR-SI (Box packing)	6BQP3965AMR-SI (Box packing)
Built-in Components	—	—	—

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QBiX-Pro Series

Preliminary

Preliminary

Model Name	QBiX-Pro-AMLA7433REHT-A1	QBiX-Pro-AMLA7433REHT-A2
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	Intel® Atom® x7433RE Processor, Intel 7, 4 cores, 6M cache, up to 3.4 GHz	Intel® Atom® x7433RE Processor, Intel 7, 4 cores, 6M cache, up to 3.4 GHz
Chipset	SoC	SoC
Memory	1 x DDR5 SO-DIMM socket, Max. Capacity 32 GB, Support Single Channel DDR5 4800 MHz	1 x DDR5 SO-DIMM socket, Max. Capacity 32 GB, Support Single Channel DDR5 4800 MHz
Ethernet	2 x GbE LAN Ports (Intel® I225V)	2 x GbE LAN Ports (Intel® I225V)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics : 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics : 2 x HDMI 2.0 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIex2, SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Front I/O	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 2.0 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x Headphone Jack	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 2.0 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x Headphone Jack
Rear I/O	2 x USB 2.0 1 x COM Port (RS-232/422/485) 1 x COM Port (RS-232) 1 x GPIO (8 bits) 1 x Remote control (w/o Audio jack) 1 x 3-pin Terminal Block	2 x USB 2.0 1 x COM Port (RS-232/422/485) 1 x COM Port (RS-232) 1 x GPIO (8 bits) 1 x Remote control (w/o Audio jack) 1 x Screw Type DC Jack
Side I/O	2 x External Antenna Holes (Optional)	2 x External Antenna Holes (Optional)
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Power	+12V~36VDC (Full Range)	+12V~36VDC (Adapter 19V/65W)
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Optional) / VESA mount (Optional)	Wall mount (Optional) / VESA mount (Optional)
Ordering Information	—	—
Built-in Components	—	—

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QBiX-Pro Series

Model Name	QBiX-Pro-ADNAN97H-A1	QBiX-Pro-ADNAN97H-A2
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	Intel® Processor N97, Intel® 7, 4 cores, 4 threads, up to 3.6 GHz	Intel® Processor N97, Intel® 7, 4 cores, 4 threads, up to 3.6 GHz
Chipset	SoC	SoC
Memory	1 x DDR5 SO-DIMM sockets, Max. Capacity 16 GB, Support Single Channel DDR5 4800 MHz	1 x DDR5 SO-DIMM sockets, Max. Capacity 16 GB, Support Single Channel DDR5 4800 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I225V)	2 x 2.5GbE LAN Ports (Intel® I225V)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics support: 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics support: 2 x HDMI 2.0 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x2) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Front I/O	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 2.0 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x Headphone Jack	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 2.0 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x Headphone Jack
Rear I/O	2 x USB 2.0 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x COM Port (RS-232/422/485) 1 x COM Port (RS-232) 1 x GPIO (8 bits) 1 x 3-pin Terminal Block	2 x USB 2.0 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x COM Port (RS-232/422/485) 1 x COM Port (RS-232) 1 x GPIO (8 bits) 1 x Screw Type DC Jack
Side I/O	2 x External Antenna Holes (Optional)	2 x External Antenna Holes (Optional)
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Power	+12V~36VDC (Full Range)	+12V~36VDC (Adapter 19V/65W)
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Optional) / VESA mount (Optional)	Wall mount (Optional) / VESA mount (Optional)
Ordering Information	6BQPN970AMR-SI (Box packing)	6BQPN970AMR-SI (Box packing)
Built-in Components	—	—

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QBiX-Pro Series

Model Name	QBiX-Pro-EHLA6412H-A1	QBiX-Pro-EHLA6412H-A2
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	Intel® Celeron® J6412 Processor, 10nm, 4 cores, 4 threads, up to 2.6 GHz	Intel® Celeron® J6412 Processor, 10nm, 4 cores, 4 threads, up to 2.6 GHz
Chipset	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x GbE LAN Ports (Intel® I210AT)	2 x GbE LAN Ports (Intel® I210AT)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors : 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors : 2 x HDMI 2.0 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIex2, SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIex2, SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Front I/O	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x Headphone Jack	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 2 x HDMI 1 x Power button with LED 1 x HDD LED 1 x Headphone Jack
Rear I/O	2 x USB 2.0 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x COM Port (RS-232/422/485) 1 x COM Port (RS-232) 1 x GPIO (8 bits) 1 x 3-pin Terminal Block	2 x USB 2.0 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x COM Port (RS-232/422/485) 1 x COM Port (RS-232) 1 x GPIO (8 bits) 1 x Screw Type DC Jack
Side I/O	2 x External Antenna Holes (Optional)	2 x External Antenna Holes (Optional)
TPM	—	—
Power	+12V~36VDC (Full Range)	+12V~36VDC (Adapter 19V/65W)
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Optional) / VESA mount (Optional)	Wall mount (Optional) / VESA mount (Optional)
Ordering Information	6BQP6412AMR-SI (Box packing)	6BQP6412AMR-SI (Box packing)
Built-in Components	—	—

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QBiX-Pro Series

Model Name	QBiX-Pro-APLB4200H-A1	QBiX-Pro-APLB4200H-B1	QBiX-Pro-BYTA1900H-A1
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	Intel® Pentium® N4200 Processor, 14nm, 4 cores, 4 threads, up to 2.5 GHz	Intel® Pentium® N4200 Processor, 14nm, 4 cores, 4 threads, up to 2.5 GHz	Intel® Celeron® J1900 Processor, 22nm, 4 cores, 4 threads, up to 2.42 GHz
Chipset	SoC	SoC	SoC
Memory	2 x DDR3L SO-DIMM sockets, Max. Capacity 8 GB, Support Dual Channel DDR3L 1866 MHz	2 x DDR3L SO-DIMM sockets, Max. Capacity 8 GB, Support Dual Channel DDR3L 1866 MHz	1 x DDR3L SO-DIMM socket, Max. Capacity 8 GB, Support Single Channel DDR3L 1333MHz
Ethernet	2 x GbE LAN Ports (Intel® I211AT)	2 x GbE LAN Ports (Intel® I211AT)	2 x GbE LAN Ports (Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® HD Graphics 505: 1 x HDMI 1.4 1 x VGA 2 independent display outputs	Integrated Graphics Processor - Intel® HD Graphics 505: 1 x HDMI 1.4 1 x VGA 2 independent display outputs	Integrated Graphics Processor - Intel® HD Graphics: 1 x HDMI 1.4 1 x VGA 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5" HDD/SSD (SATA 6Gb/s)	1 x 2.5" HDD/SSD (SATA 6Gb/s)	1 x 2.5" HDD/SSD (SATA 3Gb/s)
Expansion Slots	1 x 2242 M.2 M-Key (SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2242 M.2 M-Key (SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (SATA 3Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Front I/O	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1 1 x HDMI 1 x VGA 1 x Power switch 1 x Power & HDD LED 1 x Headphone Jack	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1 1 x HDMI 1 x VGA 1 x Power switch 1 x Power & HDD LED 1 x Headphone Jack	2 x RJ45 LAN Ports 1 x USB 3.2 Gen 1 1 x USB 2.0 1 x HDMI 1 x VGA 1 x Power switch 1 x Power & HDD LED 1 x Headphone Jack
Rear I/O	2 x USB 2.0 1 x COM Port (RS-232/422/485 & RI/5V/12V) 3 x COM Ports (RS-232) 1 x 3-pin Terminal Block	2 x USB 2.0 1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x COM Ports (RS-232) 1 x GPIO (8 bits) 1 x 3-pin Terminal Block	2 x USB 2.0 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x COM Port (RS-232/422/485) 2 x COM Ports (RS-232) 1 x 3-pin Terminal Block
Side I/O	2 x External Antenna Holes (Optional)	2 x External Antenna Holes (Optional)	2 x External Antenna Holes (Optional)
TPM	—	—	—
Power	+9V~36VDC (Full Range)	+9V~36VDC (Full Range)	+9V~36VDC (Full Range)
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Optional)	Wall mount (Optional)	Wall mount (Optional)
Ordering Information	6BCBABMR-SI (Box packing)	6BQP4200BMR-SI (Box packing)	6BQP1900AMR-SI (Box packing)
Built-in Components	—	—	—

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QBiX-Pro Series

Preliminary

Model Name	QBiX-Pro-AMDA2314H-A2	QBiX-Pro-AMDA1605H-A1
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	AMD® RYZEN™ R2314 Embedded Processor, 14nm, 4 cores, 4 threads, 2.1 GHz, up to 3.5 GHz	AMD® RYZEN™ V1605B Embedded Processor, 14nm, 4 cores, 8 threads, 2.0 GHz, up to 3.6 GHz
Chipset	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2667 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2400 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111HS)	2 x GbE LAN Ports (Realtek® RTL8111HS)
Graphic	Integrated Graphics Processor- AMD® Radeon™ Graphics: 4 x HDMI 2.0 4 independent display outputs	Integrated Graphics Processor- AMD® Radeon™ Vega 8 Graphics: 4 x HDMI 2.0 4 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen 3x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Front I/O	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 4 x HDMI 1 x Power switch 1 x Power & HDD LED	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1 4 x HDMI 1 x Power switch 1 x Power & HDD LED
Rear I/O	2 x USB 2.0 1 x GPIO 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x COM Port (RS-232) 1 x Remote control 1 x Screw Type DC Jack	2 x USB 2.0 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 2 x COM Ports (RS-232) 1 x Screw Type DC Jack
Side I/O	2 x External Antenna Holes (Optional)	2 x External Antenna Holes (Optional)
TPM	Onboard TPM 2.0 security chip INFINEON SLB9665TT2.0	Onboard TPM 2.0 security chip INFINEON SLB9665TT2.0
Power	+9V~36VDC (Adapter 19V/65W)	+9V~36VDC (Adapter 19V/65W)
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Optional)	Wall mount (Optional)
Ordering Information	6BQP2314AMR-SI (Box packing)	6BQP1605AMR-SI (Box packing)
Built-in Components	—	—

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QBiX-Pro DIN Rail Series

Model Name	QBiX-DR-EHLA6412H-A1	QBiX-Pro-GLKB5040HD-A1
Dimension	160W x 118D x 62.6H (mm)	160W x 118D x 62.6H (mm)
CPU	Intel® Celeron® J6412 Processor, 10nm, 4 cores, 4 threads, up to 2.6 GHz	Intel® Pentium® Silver J5040 Processor, 14nm, 4 cores, 4 threads, up to 3.2 GHz
Chipset	SoC	SoC
Memory	1 x DDR4 SO-DIMM socket, Max. Capacity 32 GB, Support Single Channel DDR4 3200 MHz	1 x DDR4 SO-DIMM socket, Max. Capacity 8 GB, Support Single Channel DDR4 2400 MHz
Ethernet	2 x GbE LAN Ports (Intel® I210AT)	2 x GbE LAN Ports (Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors: 1 x HDMI 2.0 1 x VGA 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics 605: 1 x HDMI 2.0 1 x VGA 2 independent display outputs
Audio	Realtek® Audio codec	Realtek® Audio Codec
Storage	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x 3052/3042 M.2 B key with SIM Slot –4G/5G Support 1 x Vertical USB 2.0	1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0) 1 x Vertical USB 2.0
Front I/O	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1 2 x USB 2.0 1 x HDMI 1 x VGA 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 1 x Power button with LED 1 x WiFi/HDD LED 1 x Remote control connector 1 x Headphone Jack 1 x External Antenna Hole (Optional)	2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x HDMI 1 x VGA 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 1 x Power button with LED 1 x WiFi/HDD LED 1 x Remote control connector 1 x Headphone Jack 1 x External Antenna Hole (Optional)
Rear I/O	1 x Din Rail Mounting Support	1 x Din Rail Mounting Support
Side I/O	1 x GPIO (8 bits) 1 x 3-pin Terminal Block 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 2 x External Antenna Holes (Optional)	1 x GPIO (8 bits) 1 x 3-pin Terminal Block 2 x COM Ports (RS-232/422/485) 2 x External Antenna Holes (Optional)
TPM	—	—
Power	+9V~36VDC (Full Range)	+9V~36VDC (Full Range)
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	DIN Rail	DIN Rail
Ordering Information	6BDR6412AMR-SI (Box packing)	6BQP5040BMR-SI (Box packing)
Built-in Components	—	—

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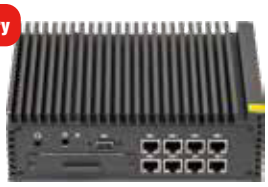
QBiX-Expert Series

Preliminary



Preliminary

Model Name	QBiX-Expert-RPLA1340PH-A1	QBiX-Expert-RPLA1320PEH-A1
Dimension	210.36W x 165D x 67H (mm)	210.36W x 165D x 67H (mm)
CPU	Intel® Core™ i5-1340P Processor, Intel® 7, 12 cores, 4P+8E, 16 threads, up to 4.6 GHz	Intel® Core™ i3-1320PE Processor, Intel® 7, 8 cores, 12 threads, up to 4.5 GHz
Chipset	SoC	SoC
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR5 5600 MHz	2 x DDR5 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR5 5600 MHz
Ethernet	2 x 2.5GbE LAN Ports 2 x GbE LAN Ports 6 x GbE LAN Ports with POE (Max 60W share)	2 x 2.5GbE LAN Ports 2 x GbE LAN Ports 6 x GbE LAN Ports with POE (Max 60W share)
Graphic	Integrated Graphics Processor - Intel® Iris Xᵉ Graphics : 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics for 13th Gen Intel® Processors: 2 x HDMI 2.0 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	2 x Swappable 2.5” HDD/SSD (SATA 6Gb/s)	2 x Swappable 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x 3052 M.2 B-Key with SIM slot	1 x 2280 M.2 M-Key (PCIe x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x 3052 M.2 B-Key with SIM slot
Front I/O	6 x RJ45 LAN Ports with POE 2 x RJ45 LAN Ports 2 x 2.5” SSD tray 1 x GPIO (8 bits)	6 x RJ45 LAN Ports with POE 2 x RJ45 LAN Ports 2 x 2.5” SSD tray 1 x GPIO (8 bits)
Rear I/O	2 x 2.5GbE Lan Ports 4 x COM Ports (RS-232/422/485) 4 x USB 3.2 Gen 2x1 4 x USB 2.0 2 x HDMI 1 x Remote switch & ignition support (3-pin) sw/hw 1 x Terminal Block (DC IN) 1 x Combo Audio Jack	2 x 2.5GbE Lan Ports 4 x COM Ports (RS-232/422/485) 4 x USB 3.2 Gen 2x1 4 x USB 2.0 2 x HDMI 1 x Remote switch & ignition support (3-pin) sw/hw 1 x Terminal Block (DC IN) 1 x Combo Audio Jack
Side I/O	4 x External Antenna Holes (wifi/5G)	4 x External Antenna Holes (wifi/5G)
TPM	TPM on board	TPM on board
Power	+19~36VDC	+19~36VDC
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	—	—
Ordering Information	—	—
Built-in Components	—	—

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QBiX-Expert Series

Model Name	QBiX-Expert-TGLA1165G7H-A1	QBiX-Expert-TGLA1135G7H-A1	QBiX-Expert-TGLA1115G4EH-A1
Dimension	210.36W x 165D x 67H (mm)	210.36W x 165D x 67H (mm)	210.36W x 165D x 67H (mm)
CPU	Intel® Core™ i7-1165G7 Processor, 10nm SuperFin, 4 cores, 8 threads, up to 4.7 GHz	Intel® Core™ i5-1135G7 Processor, 10nm SuperFin, 4 cores, 8 threads, up to 4.2 GHz	Intel® Core™ i3-1115G4E Processor, 10nm SuperFin, 2 cores, 4 threads, up to 3.90 GHz
Chipset	SoC	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT) 4 x PoE GbE LAN Ports (Intel® I211AT)	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT) 4 x PoE GbE LAN Ports (Intel® I211AT)	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT) 4 x PoE GbE LAN Ports (Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® Iris Xᵉ Graphics : 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® Iris Xᵉ Graphics : 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® Iris Xᵉ Graphics: 2 x HDMI 2.0 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x Swappable 2.5" HDD/SSD (SATA 6Gb/s)	1 x Swappable 2.5" HDD/SSD (SATA 6Gb/s)	1 x Swappable 2.5" HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Front I/O	4 x RJ45 LAN Ports with PoE 2 x USB 2.0 1 x Power button with LED 1 x HDD LED 2 x COM Ports (RS-232/422/485) 2 x External Antenna Holes (Optional)	4 x RJ45 LAN Ports with PoE 2 x USB 2.0 1 x Power button with LED 1 x HDD LED 2 x COM Ports (RS-232/422/485) 2 x External Antenna Holes (Optional)	4 x RJ45 LAN Ports with PoE 2 x USB 2.0 1 x Power button with LED 1 x HDD LED 2 x COM Ports (RS-232/422/485) 2 x External Antenna Holes (Optional)
Rear I/O	2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x COM Port (RS-232/422/485) 1 x GPIO (8 bits) 1 x Headphone Jack 1 x 4-pin Terminal Block	2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x COM Port (RS-232/422/485) 1 x GPIO (8 bits) 1 x Headphone Jack 1 x 4-pin Terminal Block	2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x COM Port (RS-232/422/485) 1 x GPIO (8 bits) 1 x Headphone Jack 1 x 4-pin Terminal Block
Side I/O	—	—	—
TPM	—	—	—
Power	+12~24VDC / 13A (PoE support)	+12~24VDC / 13A (PoE support)	+12~24VDC / 13A (PoE support)
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Optional)	Wall mount (Optional)	Wall mount (Optional)
Ordering Information	6BQE1165AMR-SI (Box packing)	6BQE1135AMR-SI (Box packing)	6BQE1115AMR-SI (Box packing)
Built-in Components	—	—	—

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QBiX-ITX Series

Model Name	QBiX-ITX-Chassis Kit
Dimension	210W x 200D x 58H (mm)
Support Model	mITX-Q670A mITX-H610A mITX-Q47EA mITX-H42EA mITX-Q370A mITX-H310A mITX-Q170A mITX-H110B mITX-1605A
Chipset	Refer to MB
Storage Drive Bay	1 x 2.5" Drive Bay
Expansion Slots	Refer to Motherboard
Front I/O	4 x USB 2.0 1 x Power button with LED 1 x Power/HDD LED
Rear I/O	2 x External Antenna Holes Others are refer to Motherboard
Side I/O	—
TPM	Refer to Motherboard
Power	Refer to Motherboard
Operating Temp.	0°C to 50°C
Mounting	Wall Mount, VESA 75/100
Ordering Information	6BQIH310AMR-SI (Box packing)-MITX-H310A
Built-in Components	—

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QBiX-Jumbo Series

New

New

Model Name	QBiX-JMB-ADLA67EH-B1	QBiX-JMB-ADLA67EHD-B1
Dimension	224W x 256.3D x 77.7H (mm)	224W x 257D x 146H (mm)
CPU	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors in the LGA1700 package	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors in the LGA1700 package
Chipset	Intel® Q670E Chipset	Intel® Q670E Chipset
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	1 x 2.5GbE LAN Port (Intel® I226V) 1 x GbE LAN Port (Intel® I219LM, Vpro support) 2 x GbE LAN Ports (Intel® I211AT)	1 x 2.5GbE LAN Port (Intel® I226V) 1 x GbE LAN Port (Intel® I219LM, Vpro support) 2 x GbE LAN Ports (Intel® I211AT)
Graphic	Integrated Graphics Processor - depends on CPU: 1 x Display Port 1 x DVI-D 1 x VGA 3 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x Display Port 1 x DVI-D 1 x VGA 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	4 x 2.5” HDD/SSD (SATA 6Gb/s)	4 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen4x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe Gen4x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0) 1 x PCIe x4 (Gen3 x4) 2 x PCIe x16 — Single at Gen3 x16 only or — Dual at Gen3 x8 + Gen3 x8
Front I/O	1 x Power Switch /Power/ HDD LED 3 x Audio Jacks (Line in, Line out, Mic in) 1 x Display Port 1 x DVI-D 1 x VGA 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 2 x COM Ports (RS-232) 4 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen 1 6 x USB 2.0 1 x 4-pin Terminal Block 1 x Remote control terminal block header 2 x External Antenna Holes (Optional)	1 x Power Switch /Power/ HDD LED 3 x Audio Jacks (Line in, Line out, Mic in) 1 x Display Port 1 x DVI-D 1 x VGA 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 2 x COM Ports (RS-232) 4 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen 1 6 x USB 2.0 1 x 4-pin Terminal Block 1 x Remote control terminal block header 2 x External Antenna Holes (Optional)
Rear I/O	—	—
Power	+12V~48VDC (Full Range)	+24V~48VDC (Full Range)
Operating Temp.	-20°C to 50°C (CPU TDP 65W) -20°C to 60°C (CPU TDP 35W)	-20°C to 50°C (CPU TDP 65W) -20°C to 60°C (CPU TDP 35W) -20°C to 35°C (with Graphic card RTX3090)
Ordering Information	6BQJQ67EBMR-SI (Box packing)	9BQJQ67EBMR-SI + 6BQJQ67EBPR-SI
Build in Components	Please contact with your sales representative for more information or e-mailed to : sales@gigaipc.com	
Note	—	—

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QBiX-Jumbo Series

Model Name	QBiX-JMB-ADLA67EH-A1	QBiX-JMB-ADLA67EHG-A1	QBiX-JMB-ADLA67EHG-B1
Dimension	224W x 256.1D x 77.7H (mm)	224W x 343D x 146H (mm)	224W x 368D x 166.3H (mm)
CPU	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors in the LGA1700 package	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors in the LGA1700 package	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors in the LGA1700 package
Chipset	Intel® Q670E Chipset	Intel® Q670E Chipset	Intel® Q670E Chipset
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	1 x 2.5GbE LAN Port (Intel® I226V) 1 x GbE LAN Port (Intel® I219LM, Vpro support) 2 x GbE LAN Ports (Intel® I211AT)	1 x 2.5GbE LAN Port (Intel® I226V) 1 x GbE LAN Port (Intel® I219LM, Vpro support) 2 x GbE LAN Ports (Intel® I211AT)	1 x 2.5GbE LAN Port (Intel® I226V) 1 x GbE LAN Port (Intel® I219LM, Vpro support) 2 x GbE LAN Ports (Intel® I211AT)
Graphic	Integrated Graphics Processor - depends on CPU: 1 x Display Port, 1 x DVI-D, 1 x VGA 3 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x Display Port, 1 x DVI-D, 1 x VGA 3 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x Display Port, 1 x DVI-D, 1 x VGA 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	4 x 2.5” HDD/SSD (SATA 6Gb/s)	4 x 2.5” HDD/SSD (SATA 6Gb/s)	4 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen4x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe Gen4x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0) 1 x PCIe x4 (Gen3 x4) 2 x PCIe x16 — Single at Gen3 x16 only or — Dual at Gen3 x8 + Gen3 x8	1 x 2280 M.2 M-Key (PCIe Gen4x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0) 1 x PCIe x4 (Gen3 x4) 2 x PCIe x16 — Single at Gen3 x16 only or — Dual at Gen3 x8 + Gen3 x8
Front I/O	1 x Power Switch /Power/ HDD LED 3 x Audio Jacks (Line in, Line out, Mic in) 1 x Display Port 1 x DVI-D 1 x VGA 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 2 x COM Ports (RS-232) 4 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen 1 6 x USB 2.0 1 x 4-pin Terminal Block 2 x External Antenna Holes (Optional)	1 x Power Switch /Power/ HDD LED 3 x Audio Jacks (Line in, Line out, Mic in) 1 x Display Port 1 x DVI-D 1 x VGA 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 2 x COM Ports (RS-232) 4 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen 1 6 x USB 2.0 1 x 4-pin Terminal Block 2 x External Antenna Holes (Optional)	1 x Power Switch /Power/ HDD LED 3 x Audio Jacks (Line in, Line out, Mic in) 1 x Display Port 1 x DVI-D 1 x VGA 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 2 x COM Ports (RS-232) 4 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen 1 6 x USB 2.0 1 x 4-pin Terminal Block 2 x External Antenna Holes (Optional)
Rear I/O	—	—	—
Power	+12V~48VDC (Full Range)	+24V~48VDC (Full Range)	+24V~48VDC (Full Range)
Operating Temp.	-20°C to 50°C (CPU TDP 65W) -20°C to 60°C (CPU TDP 35W)	-20°C to 50°C (CPU TDP 65W) -20°C to 60°C (CPU TDP 35W) -20°C to 35°C (with Graphic card RTX3090)	-20°C to 50°C (CPU TDP 65W) -20°C to 60°C (CPU TDP 35W) -20°C to 35°C (with Graphic card RTX3090)
Ordering Information	6BQJQ67EAMR-SI (Box packing)	9BQJQ67EAMR-SI + 6BQJH310APR-SI	9BQJQ67EAMR-SI + 6BQJH310BPR-SI
Build in Components	Please contact with your sales representative for more information or e-mailed to : sales@gigaipc.com		
Note	—	—	—

QBiX-Jumbo Series

Model Name	QBiX-JMB-CMLA47EH-A1	QBiX-JMB-CMLA47EHG-A1
Dimension	224W x 256.1D x 77.7H (mm)	224W x 343D x 146H (mm)
CPU	Support for 10th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors in the LGA1200 package	Support for 10th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors in the LGA1200 package
Chipset	Intel® Q470E Chipset	Intel® Q470E Chipset
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2933/2666 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2933/2666 MHz
Ethernet	4 x GbE LAN Ports (1 x Intel® I219V and 3 x Intel® I211AT)	4 x GbE LAN Ports (1 x Intel® I219V and 3 x Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® HD Graphics: 1 x Display Port 1 x DVI-D 1 x VGA 3 independent display outputs	Integrated Graphics Processor - Intel® HD Graphics: 1 x Display Port 1 x DVI-D 1 x VGA 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	4 x 2.5” HDD/SSD (SATA 6Gb/s)	4 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0) 1 x PCIe x4 (Gen3 x4) 2 x PCIe x16 — Single at Gen3 x16 only or — Dual at Gen3 x8 + Gen3 x8
Front I/O	1 x Power Switch/ Power/ HDD LED 3 x Audio Jacks (Line in, Line out, Mic in) 1 x Display Port 1 x DVI-D 1 x VGA 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 2 x COM Ports (RS-232) 4 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 6 x USB 2.0 1 x 4-pin Terminal Block 2 x External Antenna Holes (Optional)	1 x Power Switch/ Power/ HDD LED 3 x Audio Jacks (Line in, Line out, Mic in) 1 x Display Port 1 x DVI-D 1 x VGA 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 2 x COM Ports (RS-232) 4 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 6 x USB 2.0 1 x 4-pin Terminal Block 2 x External Antenna Holes (Optional)
Rear I/O	—	—
Power	+12V~48VDC (Full Range)	+24V~48VDC (Full Range)
Operating Temp.	-20°C to 50°C (CPU TDP 65W) -20°C to 60°C (CPU TDP 35W)	-20°C to 50°C (CPU TDP 65W) -20°C to 60°C (CPU TDP 35W)
Ordering Information	6BQJQ47EAMR-SI (Box packing)	9BQJQ47EAMR-SI + 6BQJH310APR-SI
Build in Components	Please contact with your sales representative for more information or e-mailed to : sales@gigaipc.com	
Note	—	—

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QBiX-Jumbo Series

Model Name	QBiX-JMB-CMLA47EHG-B1	QBiX-JMB-CMLA47EHGP-A1
Dimension	224W x 368D x 166.3H (mm)	224W x 368D x 166.3H (mm)
CPU	Support for 10th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors in the LGA1200 package	Support for 10th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors in the LGA1200 package
Chipset	Intel® Q470E Chipset	Intel® Q470E Chipset
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2933/2666 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2933/2666 MHz
Ethernet	4 x GbE LAN Ports (1 x Intel® I219V and 3 x Intel® I211AT)	4 x GbE LAN Ports (1 x Intel® I219V and 3 x Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® HD Graphics: 1 x Display Port 1 x DVI-D 1 x VGA 3 independent display outputs	Integrated Graphics Processor - Intel® HD Graphics: 1 x Display Port 1 x DVI-D 1 x VGA 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	4 x 2.5” HDD/SSD (SATA 6Gb/s)	4 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0) 1 x PCIe x4 (Gen3 x4) 2 x PCIe x16 — Single at Gen3 x16 only or — Dual at Gen3 x8 + Gen3 x8	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0) 1 x PCIe x4 (Gen3 x4) 2 x PCIe x16 — Single at Gen3 x16 only or — Dual at Gen3 x8 + Gen3 x8
Front I/O	1 x Power Switch/ Power/ HDD LED 3 x Audio Jacks (Line in, Line out, Mic in) 1 x Display Port 1 x DVI-D 1 x VGA 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 2 x COM Ports (RS-232) 4 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 6 x USB 2.0 1 x 4-pin Terminal Block 2 x External Antenna Holes (Optional)	1 x Power Switch/ Power/ HDD LED 3 x Audio Jacks (Line in, Line out, Mic in) 1 x Display Port 1 x DVI-D 1 x VGA 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 2 x COM Ports (RS-232) 4 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 6 x USB 2.0 2 x External Antenna Holes (Optional)
Rear I/O	—	—
Power	+24V~48VDC (Full Range)	850W Power Supply Built-in
Operating Temp.	-20°C to 50°C (CPU TDP 65W) -20°C to 60°C (CPU TDP 35W)	-20°C to 50°C (CPU TDP 65W) -20°C to 60°C (CPU TDP 35W)
Ordering Information	9BQJQ47EAMR-SI + 6BQJH310BPR-SI	9BQJQ47EPMR-SI (Box packing)
Build in Components	Please contact with your sales representative for more information or e-mailed to : sales@gigaipc.com	
Note	—	※Support Discrete GFX Max. 350W

QBiX-Jumbo Series

Model Name	QBiX-JMB-CFLA310H-A1	QBiX-JMB-CFLA310HG-A1	QBiX-JMB-CFLA310HG-B1
Dimension	224W x 257D x 77H (mm)	224W x 343D x 146H (mm)	224W x 368D x 166.3H (mm)
CPU	Support for 9th/8th Generation Intel® Core™ i7/i5/i3 processors in the LGA1151 package	Support for 9th/8th Generation Intel® Core™ i7/i5/i3 processors in the LGA1151 package	Support for 9th/8th Generation Intel® Core™ i7/i5/i3 processors in the LGA1151 package
Chipset	Intel® H310 Chipset	Intel® H310 Chipset	Intel® H310 Chipset
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2666/2400 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2666/2400 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2666/2400 MHz
Ethernet	4 x GbE LAN Ports (1 x Intel® I219V and 3 x Intel® I211AT)	4 x GbE LAN Ports (1 x Intel® I219V and 3 x Intel® I211AT)	4 x GbE LAN Ports (1 x Intel® I219V and 3 x Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® HD Graphics: 1 x Display Port 1 x DVI-D 1 x VGA 2 independent display outputs	Integrated Graphics Processor - Intel® HD Graphics: 1 x Display Port 1 x DVI-D 1 x VGA 2 independent display outputs	Integrated Graphics Processor - Intel® HD Graphics: 1 x Display Port 1 x DVI-D 1 x VGA 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	3 x 2.5" HDD/SSD (SATA 6Gb/s)	3 x 2.5" HDD/SSD (SATA 6Gb/s)	3 x 2.5" HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key 1 x Full-size Mini PCIe with SIM slot	1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key 1 x Full-size Mini PCIe with SIM slot 1 x PCIe x4 (Gen3 x1) 1 x PCIe x16 (Gen3 x16)	1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key 1 x Full-size Mini PCIe with SIM slot 1 x PCIe x4 (Gen3 x1) 1 x PCIe x16 (Gen3 x16)
Front I/O	1 x Power Switch/ Power/ HDD LED 3 x Audio Jacks (Line in, Line out, Mic in) 1 x Display Port 1 x DVI-D 1 x VGA 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 2 x COM Ports (RS-232) 4 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 4 x USB 2.0 1 x 4-pin Terminal Block 2 x External Antenna Holes (Optional)	1 x Power Switch/ Power/ HDD LED 3 x Audio Jacks (Line in, Line out, Mic in) 1 x Display Port 1 x DVI-D 1 x VGA 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 2 x COM Ports (RS-232) 4 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 4 x USB 2.0 1 x 4-pin Terminal Block 2 x External Antenna Holes (Optional)	1 x Power Switch/ Power/ HDD LED 3 x Audio Jacks (Line in, Line out, Mic in) 1 x Display Port 1 x DVI-D 1 x VGA 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 2 x COM Ports (RS-232) 4 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 4 x USB 2.0 1 x 4-pin Terminal Block 2 x External Antenna Holes (Optional)
Rear I/O	—	—	—
Power	+12V~48VDC (Full Range)	+24V~48VDC (Full Range)	+24V~48VDC (Full Range)
Operating Temp.	-20°C to 50°C (CPU TDP 65W) -20°C to 60°C (CPU TDP 35W) -20°C to 50°C (CPU TDP 35W, i3-8100T, Tj 82°C)	-20°C to 50°C (CPU TDP 65W) -20°C to 60°C (CPU TDP 35W) -20°C to 50°C (CPU TDP 35W, i3-8100T, Tj 82°C)	-20°C to 50°C (CPU TDP 65W) -20°C to 60°C (CPU TDP 35W) -20°C to 50°C (CPU TDP 35W, i3-8100T, Tj 82°C)
Ordering Information	9BQJH310AMR-SI (Box packing)	9BQJH310AMR-SI + 6BQJH310APR-SI	9BQJH310AMR-SI + 6BQJH310BPR-SI
Build in Components	Please contact with your sales representative for more information or e-mailed to : sales@gigaipc.com		
Note	—	※Support Discrete GFX Max. 250W	※Support Discrete GFX Max. 250W

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QBiX-WP Series

New

Model Name	QBiX-WP-ADLA1235UH-A1	QBiX-WP-WHLA8265H-A1	QBiX-WP-APLA3940H-A1
Dimension	188W x 155D x 72H (mm)	188W x 155D x 72H (mm)	188W x 155D x 72H (mm)
CPU	Intel® Core™ i5-1235U Processor, 10nm, 10 cores, 12 threads, up to 4.40 GHz	Intel® Core™ i5-8265U Processor, 14nm, 4 cores, 8 threads, up to 3.9 GHz	Intel® Atom® x5-E3940 Processor, 14nm, 4 cores, 4 threads, up to 1.8 GHz
Chipset	SoC	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2400 MHz	2 x DDR3L SO-DIMM sockets, Max. Capacity 8 GB, Support Dual Channel DDR3L 1866 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V)	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)	2 x GbE LAN Ports (Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® Iris® Xᵉ Graphics: 1 x HDMI 2.0	Integrated Graphics Processor - Intel® UHD Graphics 620: 1 x HDMI 1.4	Integrated Graphics Processor - Intel® HD Graphics 500: 1 x HDMI 1.4
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2242 M.2 M-Key (SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Front I/O	2 x (M12) RJ45 LAN Ports 2 x (IP67) USB 2.0 connector 1 x (IP67) HDMI connector 1 x (IP67) Power switch 1 x (M8) Power & HDD LED	2 x (M12) RJ45 LAN Ports 2 x (IP67) USB 2.0 connector 1 x (IP67) HDMI connector 1 x (IP67) Power switch 1 x (M8) Power & HDD LED	2 x (M12) RJ45 LAN Ports 2 x (IP67) USB 2.0 connector 1 x (IP67) HDMI connector 1 x (IP67) Power switch 1 x (M8) Power & HDD LED
Rear I/O	1 x (M12) COM Port (RS-232/422/485 & RI/5V/12V) 2 x (M12) CAN BUS 1 x (M12) GPIO (8 bits) 1 x (M12) DC IN	1 x (M12) COM Port (RS-232/422/485 & RI/5V/12V) 2 x (M12) COM Ports (RS-232) 1 x (M12) GPIO (8 bits) 1 x (M12) DC IN	1 x (M12) COM Port (RS-232/422/485 & RI/5V/12V) 2 x (M12) COM Ports (RS-232) 1 x (M12) GPIO (8 bits) 1 x (M12) DC Jack
Power	+9V~36VDC	+9V~36VDC	+9V~36VDC
Operating Temp.	-20°C to 70°C	-20°C to 70°C	-20°C to 80°C
Ordering Information	—	9BQW8265AMR-SI (Box packing)	9BQW3940AMR-SI (Box packing)
Build in Components	Please contact with your sales representative for more information or e-mailed to : sales@gigaipc.com		
Note	—	—	—

GIGAIPC

QBiX-Jetson Series

Preliminary

Preliminary

Model Name	QBiX-OrinAGX64-A1	QBiX-OrinAGX32-A1	QBiX-OrinNX16GHP-A1 QBiX-OrinNano8GH-A1
Dimension	175W x 145D x 85H (mm)	175W x 145D x 85H (mm)	210W x 169.8D x 55.2H (mm)
SOC	Nvidia Jetson AGX Orin 64GB	Nvidia Jetson AGX Orin 32GB	Nvidia Jetson Orin NX Nvidia Jetson Orin Nano
GPU	2048-core NVIDIA Ampere architecture GPU with 64 Tensor Cores	1792-core NVIDIA Ampere architecture GPU with 56 Tensor Cores	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores
CPU	12-core Arm® Cortex®-A78AE v8.2 64-bit CPU, 3MB L2 + 6MB L3	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU, 2MB L2 + 4MB L3	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU, 2MB L2 + 4MB L3 (QBiX-OrinNX16GHP-A1) 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU, 1.5MB L2 + 4MB L3 (QBiX-OrinNano8GH-A1)
Memory	64GB 256-bit LPDDR5 204.8GB/s	32GB 256-bit LPDDR5 204.8GB/s	16GB 128-bit LPDDR5 102.4GB/s (QBiX-OrinNX16GHP-A1) 8GB 128-bit LPDDR5 102.4GB/s (QBiX-OrinNano8GH-A1)
Ethernet	1 x GbE RTL8211F-CG 1 x GbE PCIE RTL8111H 4 x (PCIe) 10/100/1000Mbps Ethernets (Optional PoE support) - RTL8111H (POE_PSE min: Total 30W, 2 port * 15W, 4 port * 7.5W)	1 x GbE RTL8211F-CG 1 x GbE PCIE RTL8111H 4 x (PCIe) 10/100/1000Mbps Ethernets (Optional PoE support) - RTL8111H (POE_PSE min: Total 30W, 2 port * 15W, 4 port * 7.5W)	8 x GbE LAN with PoE 15W/port (IEEE802.3af) 2 x GbE LAN
Graphic	1 x HDMI 2.0	1 x HDMI 2.0	1 x HDMI 2.0, 1 x Display Port
Audio	—	—	—
Storage	1 x 64G eMMC 5.1 (Module) 2 x 2280 M.2 M-Key (SATA or PCIe GEN4)	1 x 32G eMMC 5.1 (Module) 2 x 2280 M.2 M-Key (SATA or PCIe GEN4)	1 x SATA 6Gb/s (Swappable 2.5” HDD/SSD)
Expansion Slots	1 x 2280/2242 M.2 M-Key (PCIe x4) 1 x 2280 M.2 M-Key (PCIe x4) 1 x 3052/3042 M.2 B-Key for 5G/LTE (USB 3.2 Gen 2 only) 1 x 2230 M.2 E-Key for WiFi 5/6 1 x M.2 - OOB module (optional)	1 x 2280/2242 M.2 M-Key (PCIe x4) 1 x 2280 M.2 M-Key (PCIe x4) 1 x 3052/3042 M.2 B-Key for 5G/LTE (USB 3.2 Gen 2 only) 1 x 2230 M.2 E-Key for WiFi 5/6 1 x M.2 - OOB module (optional)	1 x 2280 M.2 B-Key (NVME) 1 x Mini PCIe (USB 2.0) 1 x 2230 M.2 E-Key 1 x SIM slot
Front I/O	4 x USB 3.2 Gen 2 1 x USB 3.2 Gen 2 Type-C (OTG) 1 x SD slot (Micro SD) 1 x HDMI 1 x Mic-in (Mono), line-out (Stereo) 1 x Power/reset/recovery button 2 x External Antenna Holes (Optional) 1 x 2.5’’ SSD/HDD SATA Extension 1 x Remote control header	4 x USB 3.2 Gen 2 1 x USB 3.2 Gen 2 Type-C (OTG) 1 x SD slot (Micro SD) 1 x HDMI 1 x Mic-in (Mono), line-out (Stereo) 1 x Power/reset/recovery button 2 x External Antenna Holes (Optional) 1 x 2.5’’ SSD/HDD SATA Extension 1 x Remote control header	1 x USB 2.0 Type Micro B 1 x SD slot (Micro SD) 1 x HDMI, 1 x Display Port 1 x Power button with LED 1 x HDD LED 1 x GPIO (8 bits) 1 x Recovery button 2 x External Antenna Holes (Optional) 1 x 2.5’’ SSD/HDD SATA Extension
Rear I/O	2 x COM Ports (RS-232/422/485) 1 x 3-pin Terminal Block 1 x CANBus 2.0b, isolated (DB9) 6 x user defined LEDs (GPIO for user programming) 2 x GbE LAN Ports 4 x GbE LAN Ports (Support POE)	2 x COM Ports (RS-232/422/485) 1 x 3-pin Terminal Block 1 x CANBus 2.0b, isolated (DB9) 6 x user defined LEDs (GPIO for user programming) 2 x GbE LAN Ports 4 x GbE LAN Ports (Support POE)	4 x COM Ports (RS-232/422/485) 1 x 3-pin Terminal Block 8 x GbE LAN Ports with PoE 15W/Port 2 x GbE LAN Ports 4 x USB 3.2 Gen 1
Side I/O	4 x External Antenna Holes (Optional)	4 x External Antenna Holes (Optional)	4 x External Antenna Holes (Optional)
Power	+19V~24VDC (Terminal Blocks)	+19V~24VDC (Terminal Blocks)	+12V~54VDC (non PoE) +54VDC (PoE support)
Operating Temp.	-20°C to 60°C	-20°C to 60°C	-20°C to 70°C
Ordering Information	9BQNORAXAMR-SI (Box packing)	9BQNORAXAMR-SI (Box packing)	9BQNORNXAMR-SI (Box packing) 9BQNORNOAMR-SI (Box packing)
Build in Components	—	—	—

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QBiX-Jetson Series

Model Name	QBiX-ORNX8GM-A1	QBiX-Jetson-XavierAHP-A1	QBiX-Jetson-NanoAHP-A1
Dimension	124W x 127.6D x 47.7H (mm)	210W x 169.8D x 55.2H (mm)	210W x 169.8D x 55.2H (mm)
SOC	Nvidia Jetson Orin NX	Jetson Xavier NX (8GB)	Nvidia Jetson Nano (4GB)
GPU	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores	384-core NVIDIA Volta™ architecture GPU with 48 Tensor Cores	NVIDIA Maxwell architecture with 128 NVIDIA CUDA® cores
CPU	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU, 1.5MB L2 + 4MB L3	6-core NVIDIA Carmel Arm®v8.2 64-bit CPU, 6MB L2 + 4MB L3	Quad-core ARM® Cortex®-A57 MPCore processor with NEON Technology
Memory	8GB 128-bit LPDDR5, 102.4GB/s	8GB 128-bit LPDDR4x, 59.7GB/s	4GB 64-bit LPDDR4, 25.6GB/s
Ethernet	1 x GbE LAN	8 x GbE LAN with PoE 15W/Port (PoE Optional) 2 x GbE LAN	8 x GbE LAN with PoE 15W/Port (PoE Optional) 2 x GbE LAN
Graphic	1 x HDMI 2.0	1 x HDMI 1 x Display Port	1 x HDMI 1 x Display Port
Audio	—	—	—
Storage	1 x 2280 M.2 M-Key (PCIe x2)	1 x 16G eMMC 5.1 (Module) 1 x SATA 6Gb/s (Swappable 2.5” HDD/ SSD)	1 x 16G eMMC 5.1 (Module) 1 x SATA 6Gb/s (Swappable 2.5” HDD/ SSD)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4) - Support HDMI Capture Card 1 x 2230 M.2 E-Key	1 x 3052 M.2 B-Key (PCIe x1, USB3.2 Gen1x1) 1 x Mini PCIe (USB 2.0 only) 1 x 2230 M.2 E-Key - Intel® AC 8265 (Optional) 1 x SIM slot	1 x 3052 M.2 B-Key (USB 3.2 Gen 1x1) 1 x Mini PCIe (USB 2.0 only) 1 x 2230 M.2 E-Key - Intel® AC 8265 (Optional) 1 x SIM slot
Front I/O	1 x USB Type C (OTG) 2 x USB 2.0 1 x Power button with Power LED indicator 1 x Recovery button	1 x Micro SD card 1 x Micro USB 2.0 (OTD) 1 x HDMI 2.0 1 x Display Port 1 x Power button with LED 1 x HDD LED 1 x GPIO (12 bits) 1 x Recovery button 2 x External Antenna Holes (Optional)	1 x Micro SD card 1 x Micro USB 2.0 (OTD) 1 x HDMI 2.0 1 x Display Port 1 x Power button with LED 1 x HDD LED 1 x GPIO (12 bits) 1 x Recovery button 2 x External Antenna Holes (Optional)
Rear I/O	1 x DC Jack 1 x GbE LAN Port 2 x USB 3.2 Gen 2 2 x External Antenna Holes (Optional)	4 x COM Ports (RS-232/422/485) 1 x 3-pin Terminal block 8 x GbE LAN Ports with PoE 15W/Port 2 x GbE LAN Ports 4 x USB 3.2 Gen 1	4 x COM Ports (RS-232/422/485) 1 x 3-pin Terminal block 8 x GbE LAN Ports with PoE 15W/Port 2 x GbE LAN Ports 4 x USB 3.2 Gen 1
Side I/O	HDMI & VGA input (Option : YUAN SC400N1 M2 HDV)	4 x External Antenna Holes (Optional)	4 x External Antenna Holes (Optional)
Power	+19VDC (Adapter PSU support)	+12V~54VDC (non PoE) +54VDC (PoE support)	+12V~54VDC (non PoE) +54VDC (PoE support)
Operating Temp.	0°C to 40°C	-20°C to 70°C	-20°C to 70°C
Ordering Information	9BQNORNXDMR-SI (Box packing)	9BQNXAVNAMR-SI (Box packing)	9BQNNANOAMR-SI (Box packing)
Build in Components	—	—	—

QBiX-Plus Series

Model Name	QBiX-Plus-EHLA6412-A1
Dimension	165W x 105D x 27H (mm)
CPU	Intel® Celeron® J6412 Processor, 10nm, 4 cores, 4 threads, up to 2.6 GHz
Chipset	—
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8118)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics for 10th Intel® Processor 3 x HDMI 2.0 3 independent display outputs
Audio	Realtek® Audio Codec
Storage	—
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x 3042 M.2 B-key with SIM Slot (USB 3.2 Gen 1)
Front I/O	2 x USB 3.2 Gen 1 1 x COM Port (RS-232)(RJ45 Type) 1 x Micro SD card slot 1 x Power button 1 x HDMI
Rear I/O	1 x Headphone Jack 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1 2 x HDMI 1 x DC Jack
Side I/O	3 x External Antenna Holes (Optional)
TPM	—
Power	+12V~19VDC (Adapter 19V/65W)
Operating Temp.	0°C to 50°C
Mounting	VESA 75/100
Ordering Information	6BQS6412AMR-SI (Box packing)
Built-in Components	—

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QBiX-Mini Series

Preliminary

Model Name	QBiX-Mini-ASLX7433RET-A1
Dimension	165W x 105D x 27H (mm)
CPU	Intel® Atom® x7433RE Processor, Intel® 7, 4 cores, 6M cache, up to 3.4 GHz
Chipset	—
Memory	1 x DDR5 SO-DIMM socket, Max. Capacity 32 GB, Support Single Channel DDR5 4800 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111H)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics 1 x HDMI 2.0 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec
Storage	—
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Rear I/O	1 x Headphone Jack 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1 2 x HDMI 1 x DC Jack
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Power	—
Operating Temp.	-20°C to 70°C
Mounting	—
Ordering Information	—
Built-in Components	—

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QBiX-Lite Series

Preliminary

New

Model Name	QBiX-Lite-RPLA1360PH-A1	QBiX-Lite-RPLA1340PH-A1	QBiX-Lite-TGLA1145G7E-A1
Dimension	234W x 155D x 30H (mm)	234W x 155D x 30H (mm)	234W x 155D x 30H (mm)
CPU	Intel® Core™ i7-1360P Processor, Intel® 7, 12 cores, 4P+8E, 16 threads, up to 5.0 GHz	Intel® Core™ i5-1340P Processor, Intel® 7, 12 cores, 4P+8E, 16 threads, up to 4.6 GHz	Intel® Core™ i5-1145G7E Processor 10nm SuperFin, 4 cores, 8 threads, up to 4.1 GHz
Chipset	SoC	SoC	SoC
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 5200 MHz	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 5200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V)	2 x 2.5GbE LAN Ports (Intel® I226V)	2 x GbE LAN Ports (Intel® I219LM and Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® Iris Xᵉ Graphics 2 x HDMI 2.1 2 x DP 1.4 (8K) 1 x DP 1.4 (USB Type C (8K)) 4 independent display outputs	Integrated Graphics Processor - Intel® Iris Xᵉ Graphics 2 x HDMI 2.1 2 x DP 1.4 (8K) 1 x DP 1.4 (USB Type C (8K)) 4 independent display outputs	Integrated Graphics Processor - Intel® Iris Xᵉ Graphics: 2 x HDMI 2.0 2 x DP 1.4 (8K) 1 x DP 1.4 (USB Type C (8K)) 4 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5" HDD/SSD (SATA 6Gb/s)	1 x 2.5" HDD/SSD (SATA 6Gb/s)	1 x 2.5" HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key 1 x 3052/3042 M.2 B-Key with SIM slot (Support 5G)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key 1 x 3052/3042 M.2 B-Key with SIM slot (Support 5G)	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key 1 x 3052 M.2 B-Key with SIM slot (Support 5G)
Front I/O	1 x USB type C (USB 3.2 Gen 2x1, DP Alt Mode & PD Out -30W)(-100W requests to use 250W adapter) 1 x USB type C (USB 3.2 Gen 2x1, PD input-130W) 4 x USB 3.2 Gen 2x1 2 x HDMI 2 x DP 2 x RJ45 LAN Ports 2 x USB 2.0 1 x HDD LED 1 x Power button with LED 2 x External Antenna Holes (Optional)	1 x USB type C (USB 3.2 Gen 2x1, DP Alt Mode & PD Out -30W)(-100W requests to use 250W adapter) 1 x USB type C (USB 3.2 Gen 2x1, PD input-130W) 4 x USB 3.2 Gen 2x1 2 x HDMI 2 x DP 2 x RJ45 LAN Ports 2 x USB 2.0 1 x HDD LED 1 x Power button with LED 2 x External Antenna Holes (Optional)	1 x USB type C (USB 3.2 Gen 2x1, DP Alt Mode & PD Out -30W)(-100W requests to use 250W adapter) 1 x USB type C (USB 3.2 Gen 2x1, PD input-100W) 4 x USB 3.2 Gen 2x1 2 x HDMI 2 x DP 2 x RJ45 LAN Ports 2 x USB 2.0 1 x HDD LED 1 x Power button with LED 2 x External Antenna Holes (Optional)
Rear I/O	1 x COM Port (RS-232 & RI/5V/12V) 2 x USB 2.0 1 x Headphone Jack 1 x Screw type DC Jack 2 x External Antenna Holes (Optional)	1 x COM Port (RS-232 & RI/5V/12V) 2 x USB 2.0 1 x Headphone Jack 1 x Screw type DC Jack 2 x External Antenna Holes (Optional)	1 x COM Port (RS-232) 2 x USB 2.0 1 x Headphone Jack 1 x Screw type DC Jack 2 x External Antenna Holes (Optional)
Side I/O	1 x External Antenna Hole (on each side)	1 x External Antenna Hole (on each side)	1 x External Antenna Hole (on each side)
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	—
Power	+12V~24VDC (Adapter 19.5V/135W)	+12V~24VDC (Adapter 19.5V/135W)	+12V~24VDC (Adapter 19.5V/135W)
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Default)	Wall mount (Default)	Wall mount (Default)
Ordering Information	6BQL1360AMR-SI (Box packing)	6BQL1340AMR-SI (Box packing)	6BQL1145AMR-SI (Box packing)
Built-in Components	—	—	—

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QBiX-Lite Series

Preliminary

Model Name	QBiX-Lite-TGLA1135G7-A1	QBiX-Lite-AMDA2314H-A1	QBiX-Lite-AMDA1605H-A1
Dimension	234W x 155D x 30H (mm)	234W x 155D x 30H (mm)	234W x 155D x 30H (mm)
Support model	Intel® Core™ i5-1135G7 Processor 10nm SuperFin, 4 cores, 8 threads, up to 4.2 GHz	AMD Ryzen™ R2314 Embedded Processor 14nm, 4 cores, 4 threads, 2.1 GHz, up to 3.5 GHz	AMD® RYZEN™ V1605B Embedded Processor, 14nm, 4 cores, 8 threads, up to 3.6GHz
Chipset	SoC	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2667 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2400 MHz
Ethernet	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)	2 x GbE LAN Ports (Realtek® RTL8111HS)	2 x GbE LAN Ports (Realtek® RTL8111HS)
Graphic	Integrated Graphics Processor - Intel® Iris Xᵉ Graphics: 2 x HDMI 2.0 2 x DP 1.4 (8K) 1 x DP 1.4 (USB Type C (8K)) 4 independent display outputs	Integrated Graphics Processor - AMD® Radeon™ Graphics: 4 x HDMI 2.0 4 independent display outputs EDID Emulation support with AMD utility	Integrated Graphics Processor - AMD® Radeon™ Vega 8 Graphics: 4 x HDMI 2.0 4 independent display outputs EDID Emulation support with AMD utility
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5” HDD/SSD (SATA 6Gb/s)	1 x 2.5" HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x 3052 M.2 B-Key with SIM Slot (Support 5G)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Front I/O	1 x USB type C (USB 3.2 Gen 2x1, DP Alt Mode & PD Out -30W) (-100W requests to use 250W adapter) 1 x USB type C (USB 3.2 Gen 2x1, PD input-100W) 4 x USB 3.2 Gen 2x1 2 x HDMI 2 x DP 2 x RJ45 LAN Ports 2 x USB 2.0 1 x HDD LED 1 x Power button with LED 2 x External Antenna Holes (Optional)	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 2.0 4 x HDMI 1 x Power button with LED 1 x HDD LED 1 x Screw Type DC Jack	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1 2 x USB 2.0 4 x HDMI 1 x Power button with LED 1 x HDD LED 1 x Screw Type DC Jack
Rear I/O	1 x COM Port (RS-232) 2 x USB 2.0 1 x Headphone Jack 1 x Screw type DC Jack 2 x External Antenna Holes (Optional)	1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x USB 2.0 1 x Line out phone Jack 2 x External Antenna Holes (Optional)	1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x USB 2.0 1 x Line out phone Jack 2 x External Antenna Holes (Optional)
Side I/O	1 x External Antenna Hole (on each side)	—	—
TPM	—	Onboard TPM 2.0 security chip INFINEON SLB9665TT2.0	Onboard TPM 2.0 security chip INFINEON SLB9665TT2.0
Power	+12V~24VDC (Adapter 19.5V/135W)	+9V~36VDC (Adapter 19V/65W)	+9V~36VDC (Adapter 19V/65W)
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Default)	Wall mount (Default)	Wall mount (Default)
Ordering Information	6BQL1135AMR-SI (Box packing)	6BQL2314AMR-SI (Box packing)	6BQL1605AMR-SI (Box packing)
Built-in Components	—	—	—

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QBiX-Lite Series

Model Name	QBiX-Lite SDM Kits
Dimension	195W x 158D x 30H (mm)
Support model	Support SDM module as follows. SDM-1335AL SDM-1315AL SDM-1185G7EL SDM-1165G7L SDM-1135G7L SDM-1115G4L SDM-7300L – Intel® vPro support SDM-7100L
Chipset	—
Memory	Depends on SDM module
Ethernet	Depends on SDM module
Graphic	Depends on SDM module
Audio	Intel® Integrated Audio
Storage	Depends on SDM module
Expansion Slots	Depends on SDM module
Front I/O	Depends on SDM module
Rear I/O	1 x USB 3.2 Gen 1 1 x Display Port (Co-lay with front Display port) 1 x HDMI (2 x HDMI for SDM-1185G7EL) 1 x UART 1 x DC-Jack 1 x 2x2 Power connector
Side I/O	—
TPM	—
Power	+12V/19V/24VDC (Adapter 19V/65W) (Adapter 19V/90W for SDM-1165G7L, SDM-1135G7L , SDM-1115G4L) (Adapter 12V/120W for SDM-1185G7EL)
Operating Temp.	0°C to 50°C
Mounting	Wall mount, VESA 75/100 (Optional)
Ordering Information	6BSD4000AMR-SI (Box packing)
Built-in Components	—

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SDM-L Series

Model Name	SDM-1335AL	SDM-1315AL	SDM-1185G7EL
Dimensions	SDM-Large, 175W x 100D (mm)	SDM-Large, 175W x 100D (mm)	SDM-Large, 175W x 100D (mm)
CPU	Intel® Core™ i5-1335U Processor, Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.60 GHz	Intel® Core™ i3-1315U Processor, Intel® 7, 6 cores, 2P+4E, 8 threads, up to 4.50 GHz	Intel® Core™ i7-1185G7E Processor 10nm SuperFin, 4 cores, 8 threads, up to 4.40 GHz
VPro	Intel® vPro™ Platform Eligibility	—	—
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 5200 MHz	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 5200 MHz	16GB LPDDR4x-4267 MT/s (Soldered)
Ethernet	1 x 2.5GbE LAN Port (Intel® I225LM)	1 x 2.5GbE LAN Port (Intel® I225LM)	1 x 2.5GbE LAN Port (Intel® I225LM)
Graphic	Integrated Graphics Processor - Intel® Iris Xe Graphics: 1 x HDMI 2.1 (SDM), 1 x Display Port 1.4a (SDM), 1 x HDMI 2.1 (Rear), 1 x HDMI 2.0 (Rear), 1 x DP 1.4 through USB type C (8k) 4 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics: 1 x HDMI 2.1 (SDM), 1 x Display Port 1.4a (SDM), 1 x HDMI 2.1 (Rear), 1 x HDMI 2.0 (Rear), 1 x DP 1.4 through USB type C (8k) 4 independent display outputs	Integrated Graphics Processor - Intel® Iris Xᵉ Graphics: 2 x HDMI 2.1 (SDM), 2 x HDMI 2.0 (Rear), 1 x DP 1.4 through USB type C (8k) 4 independent display outputs
Audio	Intel® Integrated Audio	Intel® Integrated Audio	Intel® Integrated Audio
Storage	—	—	1 x 2280 M.2 M-Key (Support NVME only) Default SSD supplied with 128GB and heatsink
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen 4x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe Gen 4x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2230 M.2 E-Key (with Intel® AX210 Wi-Fi Card) 1 x 3052 M.2 B-Key (Support 5G)
Internal I/O	—	—	—
Rear I/O	2 x HDMI 1 x RJ45 LAN Port 3 x USB 3.2 Type A Gen 2x1 1 x USB 3.2 Type C Gen 2x1 (with DP output) 1 x PWR LED 1 x HDD LED 2 x External Antenna Holes (Optional) 1 x Reset button 1 x Power button	2 x HDMI 1 x RJ45 LAN Port 3 x USB 3.2 Type A Gen 2x1 1 x USB 3.2 Type C Gen 2x1 (with DP output) 1 x PWR LED 1 x HDD LED 2 x External Antenna Holes (Optional) 1 x Reset button 1 x Power button	2 x HDMI 1 x RJ45 LAN Port 2 x USB 3.2 Type A Gen 2x1 1 x USB 3.2 Type C Gen 2x1 (with DP output) 1 x PWR LED 1 x HDD LED 4 x External Antenna Holes (Optional) 1 x Reset button 1 x Power button
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	1 x TPM header (SPI interface)
Operating Temp.	0°C to 55°C	0°C to 55°C	0°C to 55°C
Ordering Information	9MRLU5ALMR-SI (Box packing)	9MRLU3ALMR-SI (Box packing)	9MTGU7BLMR-IA (Box packing)
Built-in Components	—	—	—

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GIGAIPC

SDM-L Series

Model Name	SDM-1165G7L	SDM-1135G7L	SDM-1115G4L
Dimensions	SDM-Large, 175W x 100D (mm)	SDM-Large, 175W x 100D (mm)	SDM-Large, 175W x 100D (mm)
CPU	Intel® Core™ i7-1165G7 Processor 10nm SuperFin, 4 cores, 8 threads, up to 4.70 GHz	Intel® Core™ i5-1135G7 Processor, 10nm SuperFin, 4 cores, 8 threads, up to 4.20 GHz	Intel® Core™ i3-1115G4 Processor , 10nm SuperFin, 2 cores, 4 threads, up to 4.10 GHz
VPro	—	—	—
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	1 x GbE LAN Port (Intel® I219V)	1 x GbE LAN Port (Intel® I219V)	1 x GbE LAN Port (Intel® I219V)
Graphic	Integrated Graphics Processor - Intel® Iris Xᵉ Graphics: 1 x HDMI 2.0 (SDM), 2 x HDMI 2.0 (Rear), 1 x DisplayPort (SDM) 4 independent display outputs	Integrated Graphics Processor - Intel® Iris Xᵉ Graphics: 1 x HDMI 2.0 (SDM), 2 x HDMI 2.0 (Rear), 1 x DisplayPort (SDM) 4 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics: 1 x HDMI 2.0 (SDM), 2 x HDMI 2.0 (Rear), 1 x DisplayPort (SDM) 4 independent display outputs
Audio	Intel® Integrated Audio	Intel® Integrated Audio	Intel® Integrated Audio
Storage	—	—	—
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	—	—	—
Rear I/O	2 x HDMI 1 x RJ45 LAN Port 3 x USB 3.2 Gen 1 1 x USB 2.0 1 x PWR LED 1 x HDD LED 2 x External Antenna Holes (Optional) 1 x Reset button 1 x Power button	2 x HDMI 1 x RJ45 LAN Port 3 x USB 3.2 Gen 1 1 x USB 2.0 1 x PWR LED 1 x HDD LED 2 x External Antenna Holes (Optional) 1 x Reset button 1 x Power button	2 x HDMI 1 x RJ45 LAN Port 3 x USB 3.2 Gen 1 1 x USB 2.0 1 x PWR LED 1 x HDD LED 2 x External Antenna Holes (Optional) 1 x Reset button 1 x Power button
TPM	1 x TPM header	1 x TPM header	1 x TPM header
Operating Temp.	0°C to 55°C	0°C to 55°C	0°C to 55°C
Ordering Information	9MTGU7ALMR-SI (Box packing)	9MTGU5ALMR-SI (Box packing)	9MTGU3ALMR-SI (Box packing)
Built-in Components	—	—	—

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SDM Docking Board Series

Model Name	CIBPU	CIBPX
Dimensions	190W x 62D (mm)	190W x 54.7D (mm)
Support model	Support SDM module as follows. SDM-1335AL SDM-1315AL SDM-1165G7L SDM-1135G7L SDM-1115G4L SDM-7300L – Intel® vPro support SDM-7100L	Support SDM module as follows. SDM-1185G7EL
CPU	—	—
VPro	—	—
Memory	—	—
Ethernet	—	—
Graphic	—	—
Audio	—	—
Storage	—	—
Expansion Slots	1 x PCIe x8 slot for SDM-L module 1 x Full-size Mini PCIe (PCIe only)	1 x PCIe x8 slot for SDM-L module 1 x Full-size Mini PCIe (PCIe only)
Internal I/O	2 x I2C 1 x GPIO 1 x UART (TX, RX only)	2 x I2C 1 x GPIO 1 x UART (TX, RX only)
Rear I/O	1 x USB 3.2 Gen 1 1 x Display Port 1 x HDMI 1 x DC-Jack 1 x 2x2 Power connector	1 x USB 3.2 Gen 2x1 2 x HDMI (1 x HDMI support 8K) 1 x DC-Jack 1 x 2x2 Power connector
TPM	—	—
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	—	—
Built-in Components	—	—

OPS Series

Model Name	OPS-H610B
Dimensions	180W x 120D x 30H (mm)
CPU	Support for 13th/12th Generation Intel® Core™ i7/i5/i3, Pentium® and Celeron® processors
Chipset	Intel® H610 Chipset
Memory	1 x DDR4 SO-DIMM sockets, Max. Capacity 16 GB, Support Single Channel DDR4 3200 MHz
Ethernet	1 x GbE LAN Port (Realtek® RTL8111H)
Graphic	Integrated Graphics Processor - depends on CPU : 1 x DP 1 independent display output
Audio	Realtek® Audio Codec
Storage	—
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen 3x4) 1 x 2230 M.2 E-Key
Front I/O	1 x Display Port 1 x RJ45 LAN port 1 x USB 3.2 Type A Gen 1 1 x USB 3.2 Type C Gen 1 1 x Combo Audio Jack (Headphone & Headset) 2 x External Antenna Holes (Optional) 1 x Reset button 1 x Power button 1 x PWR LED 1 x HDD LED
Rear I/O	1 x 80-pin JAE Tx25 OPS connector
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Power	Power delivery through 80-pin JAE Tx25 OPS connector
Operating Temp.	0°C to 45°C
Ordering Information	6BOPH610BNR-SI (Bulk packing)
Built-in Components	—

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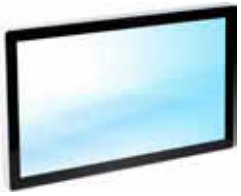
Embedded Panel PC Systems

GIGAIPC

Retail Panel PC Series

New



New

Model Name	TA-215AN97A-A1	TA-156AN97A-A1
Dimension	531.4W x 322.9D x 62.2H (mm)	386.6W x 241.6D x 53.8H (mm)
LCD	Panel size : 21.5” Resolution : 1920x1080 Viewing angel : Horizontal : 178 / Vertical : 178 Brightness : 250 cd/m^2 Color Support : 16.7M Color Backlight MTBF : 30,000 hrs Contrast Ratio : 1000	Panel size : 15.6” Resolution : 1920x1080 Viewing angel : Horizontal : 170 / Vertical : 170 Brightness : 400 cd/m^2 Color Support : 262K Color Backlight MTBF : 30,000 hrs Contrast Ratio : 800
Touch screen	Touchscreen Type : PCAP Surface Hardness : ≧ 7H Transparency : 86%	Touchscreen Type : PCAP Surface Hardness : ≧ 7H Transparency : 86%
CPU	Intel Processor N97 Intel 7, 4 cores, up to 3.60 GHz	Intel Processor N97 Intel 7, 4 cores, up to 3.60 GHz
Memory	1 x DDR5 SO-DIMM socket, Max. Capacity 16 GB Support Single Channel DDR5 4800 MHz	1 x DDR5 SO-DIMM socket, Max. Capacity 16 GB Support Single Channel DDR5 4800 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I225V)	2 x 2.5GbE LAN Ports (Intel® I225V)
Graphics support	Integrated Graphics Processor - Intel® UHD Graphics: 2 x HDMI 2.0 port 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics: 2 x HDMI 2.0 port 2 independent display outputs
Audio	Realtek® Audio codec	Realtek® Audio codec
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2) 1 x 2230 M.2 E-Key 1 x Full-size mini PCIe with SIM slot	1 x 2280 M.2 M-Key (PCIe x2) 1 x 2230 M.2 E-Key 1 x Full-size mini PCIe with SIM slot
I/O	2 x USB 3.2 Gen 2x1 4 x USB 2.0 2 x RJ45 LAN Ports 2 x HDMI 1 x COM Port (RS-232/422/485) 1 x Headphone Jack 1 x Power button with LED 1 x DC input with DC Jack	2 x USB 3.2 Gen 2x1 4 x USB 2.0 2 x RJ45 LAN Ports 2 x HDMI 1 x COM Port (RS-232/422/485) 1 x Headphone Jack 1 x Power button with LED 1 x DC input with DC Jack
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Power	+12V~36VDC	+12V~36VDC
Weight	Approx. 6.6 Kg	Approx. 2.8 Kg
IP Protection	Front bezel meets IP-65	Front bezel meets IP-65
Operating Temp.	0°C to 40°C	0°C to 40°C
Mounting	Wall, Stand with VESA 75 x 75	Wall, Stand with VESA 75 x 75
Ordering Information	25OL5-212100-M0R	25OL5-151500-M0R
Built-in Components	8GB DDR5 RAM 128GB M.2 SSD	8GB DDR5 RAM 128GB M.2 SSD

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Retail Panel PC Series

New

Model Name	TA-116AN97A-A1
Dimension	290.9W x 194.8D x 52.4H (mm)
LCD	Panel size : 11.6” Resolution : 1366x768 Viewing angel : Horizontal : 170 / Vertical : 170 Brightness : 220 cd/m^2 Color Support : 262K Color Backlight MTBF : 15,000 hrs Contrast Ratio : 800
Touch screen	Touchscreen Type : PCAP Surface Hardness : 6H Transparency : 85%
CPU	Intel Processor N97 Intel 7, 4 cores, up to 3.60 GHz
Memory	1 x DDR5 SO-DIMM socket, Max. Capacity 16 GB Support Single Channel DDR5 4800 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I225V)
Graphics support	Integrated Graphics Processor - Intel® UHD Graphics: 2 x HDMI 2.0 port 2 independent display outputs
Audio	Realtek® Audio codec
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2) 1 x 2230 M.2 E-Key 1 x Full-size mini PCIe with SIM slot
I/O	2 x USB 3.2 Gen 2x1 2 x USB 2.0 2 x RJ45 LAN Ports 2 x HDMI 1 x Headphone Jack 1 x Power button with LED 1 x DC input with DC Jack
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Power	+12V~36VDC
Weight	Approx. 1.7 Kg
IP Protection	Front bezel meets IP-65
Operating Temp.	0°C to 40°C
Mounting	Wall, Stand with VESA 75 x 75
Ordering Information	25OL5-111100-M0R
Built-in Components	8GB DDR5 RAM 128GB M.2 SSD

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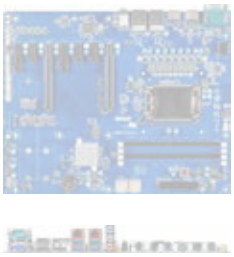
ATX Series

Preliminary



Model Name	ATX-Q870A
CPU	Support for 15th Generation Intel® Core™ Ultra 9/7/5 processors
Socket	LGA 1851
Chipset	Intel® Q870 Chipset
Memory	4 x DDR5 DIMM sockets, Max. Capacity 192 GB, Support Dual Channel DDR5 5600MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226LM and Intel® I226V)
Graphic	Integrated Graphics Processor - depends on CPU: 2 x HDMI 2.1 1 x DP 2.1b 1 x VGA 4 independent display outputs
Audio	Realtek® Audio Codec
Storage	4 x SATA 6Gb/s Ports (RAID 0/1/5/10)
Expansion Slots	1 x PCIe x16 (Gen 5x16)(PCIEX16_1) * The PCIEX16_1 slot shares bandwidth with the PCIEX16_2 slot. * The PCIEX16_1 slot operates at up to x8 mode when a device is installed in the PCIEX16_2 slot. 1 x PCIe x16 (Gen 5x8)(PCIEX16_2) 3 x PCIe x4 (Gen 4x4) 2 x PCIe x1 (Gen 4x1) 1 x 2280/2242 M.2 M-Key (PCIe Gen5x4) 1 x 2230 M.2 E-Key (PCIe Gen4x1, USB 2.0)
Internal I/O	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 2 x System fan headers 1 x Front panel header 1 x Front panel audio header 4 x USB 2.0 headers 2 x USB 3.2 Gen 1 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 4 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper
Rear I/O	3 x Audio Jacks (Line in, Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x HDMI 1 x Display Port 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	0°C to 60°C
Ordering Information	9MQ870AXMR-SI (Box packing)

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ATX Series

New

Model Name	ATX-Q670B	ATX-Q670A
CPU	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors
Socket	LGA 1700	LGA 1700
Chipset	Intel® Q670 Chipset	Intel® Q670 Chipset
Memory	4 x DDR5 DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR5 4800MHz	4 x DDR4 DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR4 3200MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226LM and Intel® I226V)	2 x 2.5GbE LAN Ports (Intel® I226LM and Intel® I226V)
Graphic	Integrated Graphics Processor - depends on CPU: 2 x HDMI 2.0 1 x DP 1.4b 1 x VGA 4 independent display outputs	Integrated Graphics Processor - depends on CPU: 2 x HDMI 2.0 1 x DP 1.4b 1 x VGA 4 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	4 x SATA 6Gb/s Ports (RAID 0/1/5/10)	4 x SATA 6Gb/s Ports (RAID 0/1/5/10)
Expansion Slots	1 x PCIe x16 (Gen 4x16)(PCIEX16_1) * The PCIEX16_1 slot shares bandwidth with the PCIEX16_2 slot. * The PCIEX16_1 slot operates at up to x8 mode when a device is installed in the PCIEX16_2 slot. 1 x PCIe x16 (Gen 4x8)(PCIEX16_2) 2 x PCIe x4 (Gen 3x4) 3 x PCIe x1 (Gen 3x1) 1 x 2280/2242 M.2 M-Key (PCIe Gen4x4, SATA 6Gb/s)(M2M_1) 1 x 2280/2242 M.2 M-Key (PCIe Gen4x4)(M2M_2) 1 x 2230 M.2 E-Key	1 x PCIe x16 (Gen 4x16)(PCIEX16_1) * The PCIEX16_1 slot shares bandwidth with the PCIEX16_2 slot. * The PCIEX16_1 slot operates at up to x8 mode when a device is installed in the PCIEX16_2 slot. 1 x PCIe x16 (Gen 4x8)(PCIEX16_2) 3 x PCIe x4 (Gen 3x4) 2 x PCI 1 x 2280/2242 M.2 M-Key (PCIe Gen4x4, SATA 6Gb/s)(M2M_1) 1 x 2280/2242 M.2 M-Key (PCIe Gen4x4)(M2M_2) 1 x 2230 M.2 E-Key
Internal I/O	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 2 x System fan headers 1 x Front panel header 1 x Front panel audio header 4 x USB 2.0 headers 2 x USB 3.2 Gen 1 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 4 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 2 x System fan headers 1 x Front panel header 1 x Front panel audio header 4 x USB 2.0 headers 2 x USB 3.2 Gen 1 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 4 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper
Rear I/O	3 x Audio Jacks (Line in, Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x HDMI 1 x Display Port 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1	3 x Audio Jacks (Line in, Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x HDMI 1 x Display Port 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MQ670BXMR-SI (Box packing)	9MQ670AXMR-SI (Box packing)

Micro-ATX Series

Preliminary

Preliminary

Model Name	uATX-R880A	uATX-Q870A
CPU	Support for 15th Generation Intel® Core™ Ultra 9/7/5 processors	Support for 15th Generation Intel® Core™ Ultra 9/7/5 processors
Socket	LGA 1851	LGA 1851
Chipset	Intel® R880 Chipset	Intel® Q870 Chipset
Memory	4 x DDR5 DIMM sockets, Max. Capacity 192 GB, Support Dual Channel DDR5 5600MHz	4 x DDR5 DIMM sockets, Max. Capacity 192 GB, Support Dual Channel DDR5 5600MHz
Ethernet	4 x 2.5GbE LAN Ports (Intel® I226V/226LM)	4 x 2.5GbE LAN Ports (Intel® I226V/226LM)
Graphic	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.1, 1 x DP 2.1, 1 x VGA, 1 x LVDS 4 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.1, 1 x DP 2.1, 1 x VGA, 1 x LVDS 4 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	4 x SATA 6Gb/s Ports (RAID 0/1/5/10)	4 x SATA 6Gb/s Ports (RAID 0/1/5/10)
Expansion Slots	1 x PCIe x16 (Gen 5x16)(PCIEX16_1) * The PCIEX16_1 slot shares bandwidth with the PCIEX16_2 slot. * The PCIEX16_1 slot operates at up to x8 mode when a device is installed in the PCIEX16_2 slot. 1 x PCIe x16 (Gen 5x8)(PCIEX16_2) 1 x PCIe x4 (Gen4 x4) 1 x PCIe x1 (Gen4 x1) 1 x 2280/2260 M.2 M-Key (PCIe Gen x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x PCIe x16 (Gen 5x16)(PCIEX16_1) * The PCIEX16_1 slot shares bandwidth with the PCIEX16_2 slot. * The PCIEX16_1 slot operates at up to x8 mode when a device is installed in the PCIEX16_2 slot. 1 x PCIe x16 (Gen 5x8)(PCIEX16_2) 1 x PCIe x4 (Gen4 x4) 1 x PCIe x1 (Gen4 x1) 1 x 2280/2260 M.2 M-Key (PCIe Gen x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 4 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232 & RI/5V/12V) 2 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper 1 x VGA header	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 4 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232 & RI/5V/12V) 2 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper 1 x VGA header
Rear I/O	1 x HDMI 1 x DisplayPort 4 x RJ45 LAN Ports 8 x USB 3.2 Gen 2x1 4 x USB 2.0	1 x HDMI 1 x DisplayPort 4 x RJ45 LAN Ports 8 x USB 3.2 Gen 2x1 4 x USB 2.0
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MR880AMMR-SI (Box packing)	9MQ870AMMR-SI (Box packing)

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Micro-ATX Series

New

New

Model Name	uATX-Q670B	uATX-H610B
CPU	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors
Socket	LGA 1700	LGA 1700
Chipset	Intel® Q670 Chipset	Intel® H610 Chipset
Memory	4 x DDR5 DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR5 4800MHz	2 x DDR5 DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 4800MHz
Ethernet	1 x GbE LAN Port (Intel® I219LM) 1 x 2.5GbE LAN Port (Intel® I226V)	1 x GbE LAN Port (Intel® I219V) 1 x 2.5GbE LAN Port (Intel® I226V)
Graphic	Integrated Graphics Processor - depends on CPU: 2 x HDMI 2.0, 1 x DP 1.4, 1 x VGA, 1 x LVDS 4 independent display outputs	Integrated Graphics Processor - depends on CPU: 2 x HDMI 2.0, 1 x DP 1.4, 1 x VGA, 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	6 x SATA 6Gb/s Ports (RAID 0/1/5/10)	4 x SATA 6Gb/s Ports
Expansion Slots	1 x PCIe x16 (Gen 4x16)(PCIEX16_A) * The PCIEX16_A slot shares bandwidth with the PCIEX16_B slot. * The PCIEX16_A slot operates at up to x8 mode when a device is installed in the PCIEX16_B slot. 1 x PCIe x16 (Gen 4x8)(PCIEX16_B) 1 x PCIe x4 (Gen3 x4) 1 x PCIe x1 (Gen3 x1) 1 x 2280/2242 M.2 M-Key (PCIe Gen4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x PCIe x16 (Gen4 x16) 1 x PCIe x4 (Gen3 x4) 1 x PCIe x1 (Gen3 x1) 1 x 2280/2242 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 6 x USB 2.0 headers 2 x USB 3.2 Gen 1 headers 3 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper 1 x Case open header	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 4 x USB 2.0 headers 3 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper 1 x Case open header
Rear I/O	3 x Audio Jacks (Line in, Line out, Mic in) 2 x HDMI 1 x DisplayPort 1 x VGA 1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen 1	3 x Audio Jacks (Line in, Line out, Mic in) 2 x HDMI 1 x DisplayPort 1 x VGA 1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen 1
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MQ670BMMR-SI (Box packing)	9MH610BMMR-SI (Box packing)

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Micro-ATX Series

Model Name	uATX-Q670A	uATX-H610A
CPU	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors
Socket	LGA 1700	LGA 1700
Chipset	Intel® Q670 Chipset	Intel® H610 Chipset
Memory	4 x DDR4 DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR4 3200MHz	2 x DDR4 DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200MHz
Ethernet	1 x GbE LAN Port (Intel® I219LM) 1 x 2.5GbE LAN Port (Intel® I226V)	1 x GbE LAN Port (Intel® I219V) 1 x 2.5GbE LAN Port (Intel® I226V)
Graphic	Integrated Graphics Processor - depends on CPU: 2 x HDMI 2.0, 1 x DP 1.4, 1 x VGA, 1 x LVDS 4 independent display outputs	Integrated Graphics Processor - depends on CPU: 2 x HDMI 2.0, 1 x DP 1.4, 1 x VGA, 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	6 x SATA 6Gb/s Ports (RAID 0/1/5/10)	4 x SATA 6Gb/s Ports
Expansion Slots	1 x PCIe x16 (Gen 4x16)(PCIEX16_A) * The PCIEX16_A slot shares bandwidth with the PCIEX16_B slot. * The PCIEX16_A slot operates at up to x8 mode when a device is installed in the PCIEX16_B slot. 1 x PCIe x16 (Gen 4x8)(PCIEX16_B) 1 x PCIe x4 (Gen3 x4) 1 x PCIe x1 (Gen3 x1) 1 x 2280/2242 M.2 M-Key (PCIe Gen4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x PCIe x16 (Gen4 x16) 1 x PCIe x4 (Gen3 x4) 1 x PCIe x1 (Gen3 x1) 1 x 2280/2242 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 6 x USB 2.0 headers 2 x USB 3.2 Gen 1 headers 3 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper 1 x Case open header	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 4 x USB 2.0 headers 3 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper 1 x Case open header
Rear I/O	3 x Audio Jacks (Line in, Line out, Mic in) 2 x HDMI 1 x DisplayPort 1 x VGA 1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen 1	3 x Audio Jacks (Line in, Line out, Mic in) 2 x HDMI 1 x DisplayPort 1 x VGA 1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen 1
TPM	1 x TPM header	1 x TPM header
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MQ670AMMR-SI (Box packing)	9MH610AMMR-SI (Box packing)

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Micro-ATX Series

Model Name	uATX-W48EA	uATX-Q47EA	uATX-H410A
CPU	Support for 11th/10th Generation Intel® Xeon® W-1200 series, Core™ i3, Pentium® & Celeron® processors	Support for 11th/10th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors	Support for 10th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors
Socket	LGA 1200	LGA 1200	LGA 1200
Chipset	Intel® W480/W480E Chipset	Intel® Q470E Chipset	Intel® H410 Chipset
Memory	4 x DDR4 DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR4 2933/2666 MHz	4 x DDR4 DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR4 2933/2666 MHz	2 x DDR4 DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2933/2666 MHz
Ethernet	4 x GbE LAN Ports (Intel® I219LM and Intel® I211AT)	4 x GbE LAN Ports (Intel® I219LM and Intel® I211AT)	2 x GbE LAN Ports (Intel® I219V and Realtek® RTL8111HS)
Graphic	Integrated Graphics Processor - depends on CPU: 1 x HDMI 1.4, 1 x DP, 1 x VGA, 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x HDMI 1.4, 1 x DP, 1 x VGA, 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x HDMI 1.4, 1 x DVI-D, 1 x VGA 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	6 x SATA 6Gb/s Ports (RAID 0/1/5/10)	4 x SATA 6Gb/s Ports (RAID 0/1/5/10)	4 x SATA 6Gb/s Ports
Expansion Slots	1 x PCIe x16 (Gen 3x16)(PCIEX16_A) * The PCIEX16_A slot shares bandwidth with the PCIEX16_B slot. * The PCIEX16_A slot operates at up to x8 mode when a device is installed in the PCIEX16_B slot. 1 x PCIe x16 (Gen 3x8)(PCIEX16_B) 1 x PCIe x4 (Gen3 x4) 1 x PCIe x1 (Gen3 x1) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x 2280/2242 M.2 M-Key (PCIe x4, SATA 6Gb/s)	1 x PCIe x16 (Gen 3x16)(PCIEX16_A) * The PCIEX16_A slot shares bandwidth with the PCIEX16_B slot. * The PCIEX16_A slot operates at up to x8 mode when a device is installed in the PCIEX16_B slot. 1 x PCIe x16 (Gen 3x8)(PCIEX16_B) 1 x PCIe x4 (Gen3 x4) 1 x PCIe x1 (Gen3 x1) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x 2280/2242 M.2 M-Key (PCIe x4, SATA 6Gb/s)	1 x PCIe x16 (Gen3 x16) 1 x PCIe x4 (Gen3 x2) 2 x PCIe x1 (Gen3 x1)
Internal I/O	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x VGA header 1 x Backlight Control header 1 x AT/ATX mode select jumper 4 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232 & RI/5V/12V) 2 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Buzzer 1 x Clear CMOS jumper	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x VGA header 1 x Backlight Control header 1 x AT/ATX mode select jumper 4 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232 & RI/5V/12V) 2 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Buzzer 1 x Clear CMOS jumper	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 2 x System fan headers 1 x Front panel header 1 x Front panel audio header 4 x USB 2.0 headers 3 x COM headers (RS-232) 1 x Clear CMOS jumper 1 x Buzzer 1 x Case open header
Rear I/O	1 x HDMI 1 x Display Port 4 x RJ45 LAN Ports 8 x USB 3.2 Gen 1, 4 x USB 2.0	1 x HDMI 1 x Display Port 4 x RJ45 LAN Ports 8 x USB 3.2 Gen 1, 4 x USB 2.0	3 x Audio Jacks (Line in, Line out, Mic in) 1 x COM Port (RS-232) 1 x HDMI, 1 x DVI-D, 1 x VGA 2 x RJ45 LAN Ports, 4 x USB 3.2 Gen 1
TPM	1 x TPM header	1 x TPM header	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	0°C to 60°C	0°C to 60°C	0°C to 60°C
Ordering Information	9MW48EAMMR-SI (Box packing)	9MQ47EAMMR-SI (Box packing)	9MH410AMNR-SI (Bulk packing)

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Micro-ATX Series

Model Name	uATX-H310A	uATX-RYZEN
CPU	Support for 9th/8th Generation Intel® Core™ i7/i5/i3, Pentium® & Celeron® processors	Support AMD® RYZEN™ 2 7'5'3 CPU AM4 µPGA (Matisse/ Picasso/ Raven2/ Pinnacle/ Raven/ Summit Ridge)
Socket	LGA 1151	Socket AM4
Chipset	Intel® H310 Chipset	AMD® B450
Memory	2 x DDR4 DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2666/2400 MHz	4 x DDR4 DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2666/2400/2133 MHz
Ethernet	2 x GbE LAN Ports (Intel® I219V and Realtek® RTL8111HS)	2 x GbE LAN Ports (Realtek® RTL8111HS)
Graphic	Integrated Graphics Processor - depends on CPU: 1 x HDMI 1.4 1 x DVI-D 1 x VGA 2 independent display outputs	Integrated Graphics Processor - Radeon™ Vega 11/ 8/ 3/ Graphics 1 x HDMI 1.4 1 x Disply Port 1 x VGA 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	4 x SATA 6Gb/s Ports	4 x SATA 6Gb/s Ports (RAID 0/1/10)
Expansion Slots	1 x PCIe x16 (Gen3 x16) 1 x PCIe x4 (Gen2 x2) 2 x PCIe x1 (Gen2 x1)	1 x PCIe x16 (Gen3 x16) 1 x PCIe x4 (Gen2 x2) 2 x PCIe x1 (Gen2 x1) 1 x 2280/2260/2242 M.2 M-Key (PCIe x4, SATA 6Gb/s)
Internal I/O	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 2 x System fan headers 1 x Front panel header 1 x Front panel audio header 4 x USB 2.0 headers 3 x COM headers (RS-232) 1 x Clear CMOS jumper 1 x Buzzer	1 x 24-pin ATX main power connector 1 x 4-pin ATX 12V power connector 1 x CPU fan header 2 x System fan headers 1 x Front panel header 1 x Front audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 2 x USB 3.2 Gen 1 headers 5 x COM headers (RS-232) 1 x PS/2 Keyboard/ Mouse Connector 1 x GPIO (8 bits) & SMBus header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper
Rear I/O	3 x Audio Jacks (Line in, Line out, Mic in) 1 x COM Port (RS-232) 1 x HDMI 1 x DVI-D 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1	3 x Audio Jacks (Line in, Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x USB 3.2 Gen 2x1 1 x USB 3.2 Gen 2x1 (Type C)
TPM	Onboard TPM 2.0 security chip INFINEON SLB9665VQ2.0	1 x TPM header
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MCH31AMNR-SI (Bulk packing)	9MZRYZBMNR-SI (Bulk packing)

GIGAIPC reserves the right to modify or change technical data without prior notice.

Mini-ITX Series

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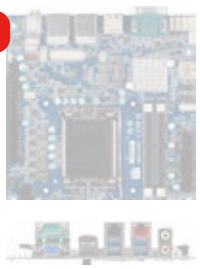
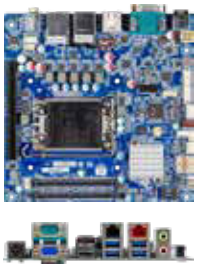


Model Name	mITX-Q870A	mITX-H810A	mITX-H810E
CPU	Support for 15th Generation Intel® Core™ Ultra 9/7/5 processors	Support for 15th Generation Intel® Core™ Ultra 9/7/5 processors	Support for 15th Generation Intel® Core™ Ultra 9/7/5 processors
Socket	LGA 1851	LGA 1851	LGA 1851
Chipset	Intel® Q870 Chipset	Intel® H810 Chipset	Intel® H810 Chipset
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 5600/6400 MHz	2 x DDR5 SO-DIMM sockets, Max. Capacity 192 GB, Support Dual Channel DDR5 5600/6400 MHz	2 x DDR5 SO-DIMM sockets, Max. Capacity 96 GB, Support Dual Channel DDR5 5600/6400 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V & I226LM)	2 x 2.5GbE LAN Ports (Intel® I226V & I226LM)	1 x GbE LAN Port (Intel® I219V) 1 x 2.5GbE LAN Port (Intel® I226V)
Graphic	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.1 1 x Display Port 1 x VGA 1 x LVDS 4 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.1 1 x Display Port 1 x VGA 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.1 1 x Display Port 1 x VGA 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	2 x SATA 6Gb/s Ports (RAID 0/1)	2 x SATA 6Gb/s Ports	2 x SATA 6Gb/s Ports
Expansion Slots	1 x PCIe x16 (Gen4 x16) 1 x 2280 M.2 M-Key (PCIe x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x PCIe x16 (Gen4 x16) 1 x 2280 M.2 M-Key (PCIe x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x PCIe x16 (Gen4 x16) 1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin ATX main power connector 2 x SATA power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 6 x USB 2.0 headers 1 x COM header (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer header 1 x AT/ATX mode select jumper	1 x 4-pin ATX main power connector 2 x SATA power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 1 x COM header (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer header 1 x AT/ATX mode select jumper	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 1 x COM header (RS-232/422/485) 4 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper
Rear I/O	2 x Audio Jacks (Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V/+19V~+24VDC)	2 x Audio Jacks (Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2 1 x DC Jack (+12V/+19V~+24VDC)	2 x Audio Jacks (Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x DisplayPort 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	0°C to 60°C	0°C to 60°C	0°C to 60°C
Ordering Information	9MQ870AIMR-SI (Box packing)	9MH810AIMR-SI (Box packing)	9MH810EIMR-SI (Box packing)

Mini-ITX Series



Model Name	mITX-Q670A	mITX-H610A	mITX-Q67EB
CPU	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors
Socket	LGA 1700	LGA 1700	LGA 1700
Chipset	Intel® Q670 Chipset	Intel® H610 Chipset	Intel® Q670E Chipset
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	1 x GbE LAN Port (Intel® I219LM) 1 x 2.5GbE LAN Port (Intel® I226V)	1 x GbE LAN Port (Intel® I219V) 1 x 2.5GbE LAN Port (Intel® I226V)	1 x GbE LAN Port (Intel® I219LM) 1 x 2.5GbE LAN Port (Intel® I226V)
Graphic	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.0 1 x Display Port 1 x VGA 1 x LVDS 4 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.0 1 x Display Port 1 x VGA 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.0 1 x Display Port 1 x VGA 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	2 x SATA 6Gb/s Ports (RAID 0/1)	2 x SATA 6Gb/s Ports	4 x SATA 6Gb/s Ports (RAID 0/1/5/10)
Expansion Slots	1 x PCIe x16 (Gen4 x16) 1 x 2280 M.2 M-Key (PCIe x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x PCIe x16 (Gen4 x16) 1 x 2280 M.2 M-Key (PCIe x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x PCIe x16 (Gen4 x16) 1 x 2280 M.2 M-Key (PCIe x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin ATX main power connector 2 x SATA power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 6 x USB 2.0 headers 1 x COM header (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer header 1 x AT/ATX mode select jumper	1 x 4-pin ATX main power connector 2 x SATA power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 1 x COM header (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer header 1 x AT/ATX mode select jumper	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 6 x USB 2.0 headers 1 x COM header (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper
Rear I/O	2 x Audio Jacks (Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V/+19V~+24VDC)	2 x Audio Jacks (Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V/+19V~+24VDC)	2 x Audio Jacks (Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1
TPM	1 x TPM header	1 x TPM header	1 x TPM header
Operating Temp.	0°C to 60°C	0°C to 60°C	0°C to 60°C
Ordering Information	9MQ670AIMR-SI (Box packing)	9MH610AIMR-SI (Box packing)	9MQ67EBIMR-SI (Box packing)

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Mini-ITX Series

Model Name	mITX-H61EC	mITX-H610E
CPU	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® processors
Socket	LGA 1700	LGA 1700
Chipset	Intel® H610E Chipset	Intel® H610 Chipset
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB Support Dual channel DDR5 4800 MHz
Ethernet	6 x 2.5GbE LAN Ports (Intel® I226V)	1 x GbE LAN Port (Intel® I219V) 1 x 2.5GbE LAN Port (Intel® I226V)
Graphic	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.0 1 x VGA 2 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.0 1 x DP 1 x VGA 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	2 x SATA 6Gb/s Ports	2 x SATA 6Gb/s Ports
Expansion Slots	1 x PCIe x16 (Gen4 x16) 1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x PCIe x16 (Gen 3x16) 1 x 2280 M.2 M-Key (PCIe Gen3x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key
Internal I/O	1 x 4-pin ATX main power connector 1 x SATA power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 4 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Clear CMOS jumper 1 x Buzzer header 1 x AT/ATX mode select jumper	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W speaker out header (3W optional) 4 x USB 2.0 headers 1 x COM header (RS-232/422/485) 4 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight control header 1 x Clear CMOS jumper 1 x Buzzer 1 x AT/ATX mode select jumper
Rear I/O	2 x Audio Jacks (Line out, Mic in) 1 x HDMI 1 x VGA 6 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V/ +19V~24VDC)	2 x Audio Jacks (Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display port 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1
TPM	Onboard TPM 2.0 security chip Infineon SLB9670VQ2.0	Onboard TPM 2.0 security chip Infineon SLB9670VQ2.0
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MH61ECIMR-SI (Box packing)	9MH610EIMR-SI (Box packing)

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Mini-ITX Series

Model Name	mITX-Q47EA	mITX-H42EA	mITX-Q370A
CPU	Support for 10th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors	Support for 10th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors	Support for 9th/8th Generation Intel® Core™ i7/i5/i3, Pentium® & Celeron® processors
Socket	LGA 1200	LGA 1200	LGA 1151
Chipset	Intel® Q470E Chipset	Intel® H420E Chipset	Intel® Q370 Chipset
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2933/2666 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2933/2666 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2666/2400 MHz
Ethernet	2 x GbE LAN Ports (Intel® I219LM and Intel® I210AT)	2 x GbE LAN Ports (Intel® I219V and Intel® I210AT)	2 x GbE LAN Ports (Intel® I219LM and Intel® I211AT)
Graphic	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.0 1 x Display Port 1 x VGA 1 x LVDS or eDP 3 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.0 1 x Display Port 1 x VGA 1 x LVDS or eDP 2 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x HDMI 1.4 1 x Display Port 1 x VGA, 1 x eDP 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	3 x SATA 6Gb/s Ports (RAID 0/1/5/10)	3 x SATA 6Gb/s Ports	3 x SATA 6Gb/s Ports (RAID 0/1/5/10)
Expansion Slots	1 x PCIe x16 (Gen3 x16) 1 x 2280/2242 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x PCIe x16 (Gen3 x16) 1 x 2280/2242 M.2 M-Key (PCIe x2) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x PCIe x16 (Gen3 x16) 1 x 2280/2242 M.2 M-Key (PCIe x4, SATA 6Gb/s, Optane memory) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin ATX main power connector 2 x SATA power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 2 x USB 3.2 Gen 1 headers 1 x COM header (RS-232) 1 x Clear CMOS jumper 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x Buzzer 1 x ATX Control header 1 x AT/ATX mode select jumper	1 x 4-pin ATX main power connector 2 x SATA power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 3 x USB 2.0 headers 2 x USB 3.2 Gen 1 headers 1 x COM header (RS-232) 1 x Clear CMOS jumper 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x Buzzer 1 x ATX Control header 1 x AT/ATX mode select jumper	1 x 4-pin ATX main power connector 2 x SATA power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 2 x USB 3.2 Gen 1 headers 1 x COM header (RS-232) 1 x GPIO (8-bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer 1 x Case open header 1 x AT/ATX mode select jumper
Rear I/O	2 x Audio Jacks (Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 1 x VGA 2 x RJ45 LAN Ports 3 x USB 3.2 Gen 1 1 x USB 3.2 Gen 2x1 1 x DC Jack (+12V/+19V~+24VDC)	2 x Audio Jacks (Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V/+19V~+24VDC)	3 x Audio Jacks (Line in, Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 1 x VGA 2 x RJ45 LAN Ports 3 x USB 3.2 Gen 1 1 x USB 3.2 Gen 2x1 1 x DC Jack (+12V/+19V/+24VDC)
TPM	1 x TPM header(LPC)	1 x TPM header	1 x TPM header
Operating Temp.	0°C to 60°C	0°C to 60°C	0°C to 60°C
Ordering Information	9MQ47EAIMR-SI (Box packing)	9MH42EAIMR-SI (Box packing)	9MCQ37AINR-SI (Bulk packing)

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Mini-ITX Series

Model Name	mITX-H310A	mITX-6412A	mITX-4125A
CPU	Support for 9th/8th Generation Intel® Core™ i7/i5/i3, Pentium® & Celeron® processors	Intel® Celeron® J6412 Processor, 10nm, 4 cores, 4 threads, up to 2.6 GHz, fan-less design	Intel® Celeron® J4125 Processor, 14nm, 4 cores, 4 threads, up to 2.7 GHz, fan-less design
Socket	LGA 1151	FCBGA1493	FCBGA1090
Chipset	Intel® H310 Chipset	—	—
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2666/2400 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 8 GB, Support Dual Channel DDR4 2400 MHz
Ethernet	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)	2 x GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Realtek® RTL8111HS)
Graphic	Integrated Graphics Processor - depends on CPU: 1 x HDMI 1.4, 1 x Display Port 1 x VGA, 1 x LVDS or eDP 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors: 1 x HDMI 2.0, 1 x VGA, 1 x LVDS or eDP 3 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics 600: 1 x HDMI 2.0, 1 x VGA, 1 x LVDS or eDP 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	2 x SATA 6Gb/s Ports	5 x SATA 6Gb/s Ports (4 x Asmedia ASM1064) (1 x supports SATA DOM)	5 x SATA 6Gb/s Ports (4 x Marvell 88SE9230, support RAID 0/1/10) (1 x supports SATA DOM)
Expansion Slots	1 x PCIe x16 (Gen3 x16) 1 x 2280/2242 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x PCIe x1 (Gen3 x1) 1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x PCIe x4 (Gen2 x2) 1 x 2280/2260/2242 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (CNVi cards only)
Internal I/O	1 x 4-pin ATX main power connector 1 x SATA power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 2 x COM headers (RS-232) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x GPIO (8-bits) & SMBus header 1 x Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer 1 x ATX Control header 1 x AT/ATX mode select jumper	1 x 4-pin ATX main power connector 3 x SATA power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 4 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Case open header 1 x AT/ATX mode select jumper 1 x Backlight Control header 1 x Buzzer 1 x ATX Control header 4 x SATA LED header	1 x 4-pin ATX main power connector 3 x SATA power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 2 x USB 3.2 Gen 1 headers 4 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Case open header 1 x AT/ATX mode select jumper 1 x Backlight Control header 1 x RAID LED header 2 x LAN LED headers 1 x Buzzer
Rear I/O	3 x Audio Jacks (Line in, Line out, Mic in) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 1 x VGA 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V/+19V/+24VDC)	2 x Audio Jacks (Line out, Mic in) 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x VGA 2 x RJ45 LAN Ports 2 x USB 2.0 2 x USB 3.2 Gen 1 1 x DC Jack (+12V/ +19V~24VDC)	3 x Audio Jacks (Line in, Line out, Mic in) 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x VGA 2 x RJ45 LAN Ports 2 x USB 2.0 2 x USB 3.2 Gen 1 1 x DC Jack (+12VDC)
TPM	1 x TPM header	Onboard TPM 2.0 Infineon SLB9670VQ2.0	1 x TPM header
Operating Temp.	0°C to 60°C	0°C to 60°C	0°C to 60°C
Ordering Information	9MH310AIMR-SI (Box packing)	9MEHLJAIMR (Box packing)	9MGMLJAINR-SI (Bulk packing)

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Mini-ITX Series

Model Name	mITX-1505A	mITX-2748A	mITX-1605A
CPU	AMD Ryzen™ R1505G Embedded Processor with Radeon™ Vega 3 Graphics 2 cores, 4 threads, 2.4GHz, up to 3.3GHz	AMD Ryzen™ V2748 Embedded Processor, 7nm, 8 cores, 16 threads, 2.9 GHz, up to 4.25GHz	AMD® Ryzen™ V1605B Embedded Processor, 14nm, 4 cores, 8 threads, 2.0 GHz, up to 3.6 GHz
Socket	FP5 BGA	FP6 BGA	FP5 BGA
Chipset	—	—	—
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual channel DDR4 2400 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2400 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8118-CG)	2 x GbE LAN Ports (Realtek® RTL8118-CG)	2 x GbE LAN Ports (Realtek® RTL8111HS)
Graphic	Integrated Graphics Processor - AMD Radeon™ Vega 8 Graphics: 2 x HDMI 2.0 1 x Display Port 3 independent display outputs	Integrated Graphics Processor - AMD Radeon™ Graphics: 4 x Display Ports 1 x LVDS port (switch from DP) 4 independent display outputs	Integrated Graphics Processor - AMD Radeon™ Vega 8 Graphics: 4 x Display Ports 1 x LVDS (switch from DP) 4 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	2 x SATA 6Gb/s ports	1 x SATA 6Gb/s Port	1 x SATA 6Gb/s Port
Expansion Slots	1 x PCIe x16 (Gen3 x4) 1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x PCIe x16 (Gen3 x8) 1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot	1 x PCIe x16 (Gen3 x8) 1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot
Internal I/O	1 x 4-pin ATX main power connector 2 x SATA power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 1 x Chassis Intrusion detect header 4 x USB 2.0 headers 3 x COM headers (RS-232) 1 x ccTalk header 1 x GPIO (8 bits) & SMBus header 1 x Clear CMOS jumper 1 x AT/ATX mode select jumper	1 x 4-pin ATX power connector 1 x SATA power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 6 x USB 2.0 headers 2 x COM headers (RS-232/422/485) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x LVDS/ DP Jumper 1 x AT/ATX mode select jumper 1 x ATX Control header 1 x Clear CMOS jumper	1 x 4-pin ATX power connector 1 x SATA power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 6 x USB 2.0 headers 2 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x LVDS/ DP jumper 1 x AT/ATX mode select jumper 1 x Clear CMOS jumper
Rear I/O	2 x Audio Jacks (Line out, Mic in) 2 x COM Ports (RS-232) 2 x HDMI 1 x Display Port 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V~+24VDC)	2 x Audio Jacks (Line out, Mic in) 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 4 x Display Ports 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V~+24VDC)	3 x Audio Jacks (Line in, Line out, Mic in) 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 4 x Display Ports 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V~+24VDC)
TPM	1 x TPM header	1 x TPM header	1 x TPM header
Operating Temp.	0°C to 60°C	0°C to 60°C	0°C to 60°C
Ordering Information	9MRZNRMIMR-SI (Box packing)	Fan version: 9MRZV2MIMR-SI (Box packing)	Fan version: 9MRZNVMIMR-SI (Box packing)

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Thin Mini-ITX Series

Preliminary

Model Name	iTXL-H810A	iTXL-H610A
CPU	Support for 15th Generation Intel® Core™ Ultra 9/7/5 processors	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors
Socket	LGA 1851	LGA 1700
Chipset	Intel® H810 Chipset	Intel® H610 Chipset
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 5600/6400 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8118-CG)	2 x GbE LAN Ports (Realtek® RTL8118-CG)
Graphic	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.1 1 x Display Port 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.0 1 x Display Port 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio codec	Realtek® Audio codec
Storage	2 x SATA 6Gb/s Ports	2 x SATA 6Gb/s Ports
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin ATX main power connector 1 x SATA Power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 1 x GPIO (8 bits) & SMBus header 4 x USB 2.0 headers 1 x COM header (RS-232) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x Clear CMOS jumper 1 x Backlight Control header 1 x AT/ATX mode select jumper	1 x 4-pin ATX main power connector 1 x SATA Power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 1 x GPIO (8 bits) & SMBus header 4 x USB 2.0 headers 1 x COM header (RS-232) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x Clear CMOS jumper 1 x Backlight Control header 1 x AT/ATX mode select jumper
Rear I/O	2 x Audio Jacks (Line out, Mic in) 1 x HDMI 1 x Display Port 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1 1 x DC Jack (+12V/+19V~+24VDC)	2 x Audio Jacks (Line out, Mic in) 1 x HDMI 1 x Display Port 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen 1 1 x DC Jack (+12V/+19V~+24VDC)
TPM	Onboard TPM 2.0 Infineon SLB9670VQ2.0	1 x TPM header
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MH810ATMR-SI (Box packing)	9MH610ATMR-SI (Box packing)

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Thin Mini-ITX Series

Model Name	iTXL-Q47EA	iTXL-H42EA
CPU	Support for 10th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors	Support for 10th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors
Socket	LGA 1200	LGA 1200
Chipset	Intel® Q470E Chipset	Intel® H420E Chipset
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2933/2666 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2933/2666 MHz
Ethernet	2 x GbE LAN Ports (Intel® I219LM and Intel® I210AT)	2 x GbE LAN Ports (Intel® I219V and Intel® I210AT)
Graphic	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.0 1 x Display Port 1 x LVDS or eDP 3 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.0 1 x Display Port 1 x LVDS or eDP 2 independent display outputs
Audio	Realtek® Audio codec	Realtek® Audio Codec
Storage	4 x SATA 6Gb/s Ports (RAID 0/1/5/10)	4 x SATA 6Gb/s Ports
Expansion Slots	1 x PCIe x16 (Gen3 x8) 1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x PCIe x16 (Gen3 x8) 1 x 2280 M.2 M-Key (PCIe x2) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin ATX main power connector 2 x SATA Power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 6 x USB 2.0 headers 1 x COM header (RS-232) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x GPIO (8 bits) & SMBus header 1 x Clear CMOS jumper 1 x Backlight Control header 1 x ATX Control header 1 x AT/ATX mode select jumper	1 x 4-pin ATX main power connector 2 x SATA Power connectors 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 5 x USB 2.0 headers 1 x COM header (RS-232) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x GPIO (8 bits) & SMBus header 1 x Clear CMOS jumper 1 x Backlight Control header 1 x ATX Control header 1 x AT/ATX mode select jumper
Rear I/O	2 x Audio Jacks (Line out, Mic in) 1 x HDMI 1 x Display Port 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V/+19V~+24VDC)	2 x Audio Jacks (Line out, Mic in) 1 x HDMI 1 x Display Port 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V/+19V~+24VDC)
TPM	1 x TPM header	1 x TPM header
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MQ47EATMR-SI (Box packing)	9MH42EATMR-SI (Box packing)

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Thin Mini-ITX Series

Model Name	iTXL-1135G7A/ iTXL-1115G4EA	iTXL-N97A
CPU	Intel® Core™ i5-1135G7 Processor 10nm SuperFin, 4 cores, 8 threads, up to 4.2 GHz Intel® Core™ i3-1115G4E Processor 10nm SuperFin, 2 cores, 4 threads, up to 3.90 GHz	Intel® Processor N97 Intel® 7, 4 cores, 6M Cache, up to 3.60 GHz
Socket	FCBGA1449	FCBGA1264
Chipset	—	—
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	1 x DDR4 SO-DIMM socket, Max. Capacity 16 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	1 x GbE LAN Port (Intel® I219V) 1 x 2.5GbE LAN Port (Intel® I226V)	2 x GbE LAN Ports (Realtek® RTL8111H)
Graphic	Integrated Graphics Processor - Intel® Iris® Xᵉ Graphics: 4 x HDMI 2.0 1 x LVDS 1 x eDP 4 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics: 2 x HDMI 2.0 1 x LVDS or eDP 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port (RAID 0/1)	1 x SATA 6Gb/s Port
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen4 x4, SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0) 1 x 2230 M.2 E-key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe Gen3x1, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin ATX main power connector 1 x SATA Power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 4 x USB 2.0 headers 2 x USB 3.2 Gen 1 headers 4 x COM headers (RS-232/422/485 & RI/5V/12V) 1 x 2W Speaker out header 1 x Backlight Control header for eDP 1 x Backlight Control header for LVDS 1 x GPIO (8 bits) & SMBus header 1 x Buzzer 1 x AT/ATX mode select jumper	1 x 4-pin ATX main power connector 1 x SATA Power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 6 x USB 2.0 headers 4 x COM headers (RS-232/422/485 & RI/5V/12V) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header for eDP 1 x Backlight Control header for LVDS 1 x AT/ATX mode select jumper 1 x ATX control header
Rear I/O	2 x Audio Jacks (Line out, Mic in) 4 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 3.2 Gen 1 1 x DC Jack (+12~+24VDC)	2 x Audio Jacks (Line out, Mic in) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V~+24VDC)
TPM	1 x TPM header	Onboard TPM 2.0 security chip INFINEON SLB9672VU2.0
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MTGU5ATMR-SI (Box packing) 9MTGU3ATMR-SI (Box packing)	9MADN9ATMR-SI (Box packing)

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Thin Mini-ITX Series

Model Name	iTXL-6412A/ iTXL-6210A	iTXL-5105A/ iTXL-4500A
CPU	Intel® Celeron® J6412 Processor, 10nm, 4 cores, 4 threads, up to 2.6 GHz Intel® Celeron® N6210 Processor, 10nm, 2 cores, 2 threads, up to 2.6 GHz	Intel® Celeron® N5105 Processor, 10nm, 4 cores, 4 threads, up to 2.9 GHz Intel® Celeron® N4500 Processor, 10nm, 2 cores, 2 threads, up to 2.8 GHz
Socket	FCBGA1493	FCBGA1338
Chipset	—	—
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 16 GB, Support Dual Channel DDR4 2933 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8118-CG)	2 x GbE LAN Ports (Realtek® RTL8118-CG)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors: 2 x HDMI 2.0 1 x LVDS or eDP 3 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics: 2 x HDMI 2.0 1 x LVDS or eDP 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port	1 x SATA 6Gb/s Port
Expansion Slots	1 x PCIe x1 (Gen3 x1) 1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x PCIe x1 (Gen3 x1) 1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin ATX main power connector 1 x SATA Power connector 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 5 x USB 2.0 headers 1 x Buzzer 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232 & RI/5V/12V) 2 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x ATX control header	1 x 4-pin ATX main power connector 1 x ATX control header (For Standard ATX PSU use) 1 x SATA Power connector 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 6 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 3 x COM headers (RS-232) 1 x GPIO (8 bits) & SMBus header 1 x Backlight Control header 1 x AT/ATX mode select jumper
Rear I/O	2 x Audio Jacks (Line out, Mic in) 2 x HDMI 2 x RJ45 LAN Ports 3 x USB 3.2 Gen 1 1 x USB 2.0 1 x DC Jack (+12V/+19~+24VDC)	2 x Audio Jacks (Line out, Mic in) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1 1 x DC Jack (+12V~+24VDC)
TPM	—	—
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MEHLJATMR-SI (Box packing) 9MEHLNATMR-SI (Box packing)	9MJPLNATMR-SI (Box packing) 9MJPLNBTMR-SI (Box packing)

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QBiP Series (3.5" SBC)

Preliminary

Model Name	QBiP-155UB/ QBiP-125UB	QBiP-1360A/ QBiP-1340A
CPU	Intel® Core™ Ultra 7 Processor 155U, Intel® 4, 12 cores, 2P+8E, 14 threads, up to 4.8 GHz Intel® Core™ Ultra 5 Processor 125U, Intel® 4, 12 cores, 2P+8E, 14 threads, up to 4.3 GHz	Intel® Core™ i7-1360P Processor, Intel® 7, 12 cores, 16 threads, up to 5.0 GHz Intel® Core™ i5-1340P Processor, Intel® 7, 12 cores, 16 threads, up to 4.6 GHz
Socket	FCBGA2049	FCBGA1744
Chipset	SoC	SoC
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 5600 MHz	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 5200 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V and Intel® I226LM)	2 x 2.5GbE LAN Ports (Intel® I226V)
Graphic	Integrated Graphics Processor - Intel® Graphics: 2 x HDMI 2.0 (CEC) 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® Iris® Xe Graphics eligible: 2 x HDMI 2.1 2 x DP 1.4b 1 x DP 1.4 (USB Type C (8K)) 1 x eDP 4 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port (RAID 0/1)	1 x SATA 6Gb/s Port (RAID 0/1)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot	1 x 2280 M.2 M-Key (PCIe Gen 4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x 3052/3042 M.2 B-Key (PCIe x1, USB3.0) with SIM Slot (Support 5G only USB interface) 1 x PCIe Gen 4x4 (Board to Wire connector)
Internal I/O	1 x 4-pin box power connector (+12V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 1 x COM header (RS-232/422/485) 4 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header 2 x CANBus header	1 x 4-pin box power connector (+12V~24VDC) 1 x SATA Power header 2 x CPU fan headers 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 1 x COM header (RS-232 & RI/5V/12V) 1 x eDP power header
Rear I/O	1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1	1 x USB type C (USB 3.2 Gen 2x1 + DP output-share with DP) & PD v3.0 Out -100W (Adapter 24V only), PD v3.0 out 60W (Adapter 12V~19V) 1 x USB type C (USB 3.2 Gen 2x1, PD v3.0 input-100W), 4 x USB 3.2 Gen 2x1 2 x HDMI 2 x DP 2 x RJ45 LAN Ports
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9672VU2.0
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MMTU7BSMR-SI (Box packing) 9MMTU5BSMR-SI (Box packing)	9MRLP7ASMR-SI (Box packing) 9MRLP5ASMR-SI (Box packing)

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QBiP Series (3.5" SBC)

Preliminary

Model Name	QBiP-1365UEB/ QBiP-1335UEB	QBiP-1355B/ QBiP-1335B/ QBiP-1315EB
CPU	Intel® Core™ i7-1365UE Processor, Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.9 GHz Intel® Core™ i5-1335UE Processor, Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.5 GHz	Intel® Core™ i7-1355U Processor, Intel® 7, 10 cores, 2P+8E, 12 threads, up to 5.0 GHz Intel® Core™ i5-1335U Processor, Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.6 GHz Intel® Core™ i3-1315UE Processor, Intel® 7, 6 cores, 2P+4E, 8 threads, up to 4.5 GHz
Socket	FCBGA1744	FCBGA1744
Chipset	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V)	2 x 2.5GbE LAN Ports (Intel® I226V)
Graphic	Integrated Graphics Processor - Intel® Iris® Xe Graphics eligible: 2 x HDMI 2.0 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® Iris® Xe/UHD Graphics for 13th Gen Intel® Processors: 2 x HDMI 2.0 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port (RAID 0/1)	1 x SATA 6Gb/s Port (RAID 0/1)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen 4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot	1 x 2280 M.2 M-Key (PCIe Gen4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot
Internal I/O	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 3 x COM headers (RS-232/422/485) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 3 x COM headers (RS-232/422/485) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header
Rear I/O	1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1	1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1
TPM	Onboard TPM 2.0 security chip INFINEON SLB9672VU2.0	Onboard TPM 2.0 security chip INFINEON SLB9672VU2.0
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	—	9MRLU7BSMR-SI (Box packing) 9MRLU5BSMR-SI (Box packing) 9MRLU3BSMR-SI (Box packing)

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QBiP Series (3.5" SBC)

Model Name	QBiP-1255A/ QBiP-1235A/ QBiP-1215EA	QBiP-1185G7EB/ QBiP-1145G7EB	QBiP-1165G7A/ QBiP-1135G7A/ QBiP-1115G4EA
CPU	Intel® Core™ i7-1255U Processor, Intel® 7, 10 cores, 12 threads, up to 4.7 GHz Intel® Core™ i5-1235U Processor, Intel® 7, 10 cores, 12 threads, up to 4.4 GHz Intel® Core™ i3-1215UE Processor, Intel® 7, 6 cores, 8 threads, up to 4.4 GHz	Intel® Core™ i7-1185G7E Processor 10nm SuperFin, 4 cores, 8 threads, up to 4.4 GHz, vPro support Intel® Core™ i5-1145G7E Processor 10nm SuperFin, 4 cores, 8 threads, up to 4.1 GHz, vPro support	Intel® Core™ i7-1165G7 Processor, 10nm SuperFin, 4 cores, 8 threads, up to 4.7 GHz Intel® Core™ i5-1135G7 Processor, 10nm SuperFin, 4 cores, 8 threads, up to 4.2 GHz Intel® Core™ i3-1115G4E Processor, 10nm SuperFin, 2 cores, 4 threads, up to 3.9 GHz
Socket	FCBGA1744	FCBGA1449	FCBGA1449
Chipset	—	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V)	2 x GbE LAN Ports (Intel® I219LM and Intel® I211AT)	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® Iris® Xe/UHD Graphics 2 x HDMI 2.0 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® Iris® Xᵉ Graphics 2 x HDMI 2.0 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® Iris® Xᵉ /UHD Graphics 2 x HDMI 2.0, 2 x DP 1.4 (8K), 1 x DP 1.4 (USB Type C (8K)), 1 x eDP 4 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port (RAID 0/1)	1 x SATA 6Gb/s Port (RAID 0/1)	1 x SATA 6Gb/s Port (RAID 0/1)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot 1 x PCIe x1 (Board to Wire connector)	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x 3052 M.2 B-Key with SIM Slot (Support 5G) 1 x PCIe x4 (Board to Wire connector)
Internal I/O	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 3 x COM headers (RS-232/422/485) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header	1 x 4-pin box power connector (+9V~48VDC) 1 x SATA Power header 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 3 x COM headers (RS-232/422/485) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header 1 x SPI header	1 x 4-pin box power connector (+12V~24VDC) 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 1 x COM header (RS-232 & RI/5V/12V) 1 x eDP power header
Rear I/O	1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1	1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1	1 x USB type C (USB 3.2 Gen 2x1 + DP output-share with DP) & PD Out -100W 1 x USB type C (USB 3.2 Gen 2x1, PD input-100W), 4 x USB 3.2 Gen 2x1 2 x HDMI, 2 x DP, 2 x RJ45 LAN Ports
TPM	1 x TPM header	1 x TPM header	1 x TPM header
Operating Temp.	0°C to 60°C	0°C to 60°C	0°C to 60°C
Ordering Information	9MADU7ASMR-SI (Box packing) 9MADU5ASMR-SI (Box packing) 9MADU3ASMR-SI (Box packing)	9MTGU7DSMR-SI (Box packing) 9MTGU5DSMR-SI (Box packing)	9MTGU7ASMR-SI (Box packing) 9MTGU5ASMR-SI (Box packing) 9MTGU3ASMR-SI (Box packing)

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QBiP Series (3.5" SBC)

Model Name	QBiP-1165G7B/ QBiP-1135G7B/ QBiP-1115G4EB	QBiP-8665A/ QBiP-8365A	QBiP-8565A/ QBiP-8265A/ QBiP-8145A
CPU	Intel® Core™ i7-1165G7 Processor, 10nm SuperFin, 4 cores, 8 threads, up to 4.7 GHz (QBiP-1165G7B) Intel® Core™ i5-1135G7 Processor, 10nm SuperFin, 4 cores, 8 threads, up to 4.2 GHz (QBiP-1135G7B) Intel® Core™ i3-1115G4E Processor, 10nm SuperFin, 2 cores, 4 threads, up to 3.9 GHz (QBiP-1115G4EB)	Intel® Core™ i7-8665UE Processor, 14nm, 4 cores, 8 threads, up to 4.4 GHz, vPro support (QBiP-8665A) Intel® Core™ i5-8365UE Processor, 14nm, 4 cores, 8 threads, up to 4.1 GHz, vPro support (QBiP-8365A)	Intel® Core™ i7-8565U Processor, 14nm, 4 cores, 8 threads, up to 4.6 GHz (QBiP-8565A) Intel® Core™ i5-8265U Processor, 14nm, 4 cores, 8 threads, up to 3.9 GHz (QBiP-8265A) Intel® Core™ i3-8145UE Processor, 14nm, 2 cores, 4 threads, up to 3.9 GHz (QBiP-8145A)
Socket	FCBGA1449	FCBGA1528	FCBGA1528
Chipset	SoC	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2400 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2400 MHz
Ethernet	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)	2 x GbE LAN Ports (Intel® I219LM and Intel® I211AT)	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® Iris® Xᵉ /UHD Graphics 2 x HDMI 2.0 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics 620: 2 x HDMI 1.4 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics 620: 2 x HDMI 1.4 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port (RAID 0/1)	2 x SATA 6Gb/s Ports (RAID 0/1/5)	2 x SATA 6Gb/s Ports (RAID 0/1/5)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0) 1 x PCIe x1 (Board to Wire connector)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin box power connector (+9V~48VDC) 1 x SATA Power header 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 3 x COM headers (RS-232/422/485) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header 1 x SPI header	1 x 4-pin box power connector (+9V~36VDC) (+48VDC Optional) 2 x SATA power headers 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 3 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header	1 x 4-pin box power connector (+9V~36VDC) (+48VDC Optional) 2 x SATA power headers 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 3 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header
Rear I/O	1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1	1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1	1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1
TPM	1 x TPM header	1 x TPM header	1 x TPM header
Operating Temp.	0°C to 60°C	0°C to 60°C	0°C to 60°C
Ordering Information	9MTGU7BSMR-SI (Box packing) 9MTGU5BSMR-SI (Box packing) 9MTGU3BSMR-SI (Box packing)	9MWHLUDSMR-SI (Box packing) 9MWHLUESMR-SI (Box packing)	9MWHLUASMR-SI (Box packing) 9MWHLUBSMR-SI (Box packing) 9MWHLUCSMR-SI (Box packing)

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QBiP Series (3.5" SBC)

Model Name	QBiP-7600A/ QBiP-7200A/ QBiP-7100A	QBiP-3965A
CPU	Intel® Core™ i7-7600U Processor, 14nm, 2 cores, 4 threads, up to 3.9 GHz, vPro support (QBiP-7600A) Intel® Core™ i5-7200U Processor, 14nm, 2 cores, 4 threads, up to 3.1 GHz (QBiP-7200A) Intel® Core™ i3-7100U Processor, 14nm, 2 cores, 4 threads, 2.4 GHz (QBiP-7100A)	Intel® Celeron® 3965U Processor, 14nm, 2 cores, 2 threads, 2.2 GHz
Socket	FCBGA1356	FCBGA1356
Chipset	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2133 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2133 MHz
Ethernet	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT) (7600A: Intel® I219LM and Intel® I211AT)	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® HD Graphics 620: 1 x HDMI 2.0 1 x Display Port 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® HD Graphics 610: 1 x HDMI 2.0 1 x Display Port 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	2 x SATA 6Gb/s Ports (RAID 0/1/5)	1 x SATA 6Gb/s Port
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin box power connector (+9V~36VDC) 2 x SATA power headers 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 3 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 3 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header
Rear I/O	1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1	1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1
TPM	1 x TPM header	1 x TPM header
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MFLP7BSMR-SI (Box packing) (QBiP-7600A) 9MFLP5ASMR-SI (Box packing) (QBiP-7200A) 9MFLP3ASMR-SI (Box packing) (QBiP-7100A)	9MFLPCASMR-SI (Box packing)

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QBiP Series (3.5" SBC)

Preliminary

Model Name	QBiP-x7433REA	QBiP-N97A
CPU	Intel® Atom® x7433RE Processor Intel® 7, 4 cores, up to 3.40 GHz	Intel® Processor N97 Intel® 7, 4 cores, up to 3.60 GHz
Socket	FCBGA1264	FCBGA1264
Chipset	—	—
Memory	1 x DDR5 SO-DIMM sockets, Max. Capacity 16 GB, Support Single Channel DDR5 4800 MHz	1 x DDR5 SO-DIMM sockets, Max. Capacity 16 GB, Support Single Channel DDR5 4800 MHz
Ethernet	2 x 2.5GbE LAN ports (Intel® I225V)	2 x 2.5GbE LAN ports (Intel® I225V)
Graphic	Integrated Graphics Processor - Intel UHD Graphics: 2 x HDMI 2.0 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel UHD Graphics: 2 x HDMI 2.0 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port	1 x SATA 6Gb/s Port
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2) 1 x Full-size mini PCIe with SIM slot 1 x 2230 M.2 E-Key (PCIe x1, USB2.0)	1 x 2280 M.2 M-Key (PCIe x2) 1 x Full-size mini PCIe with SIM slot 1 x 2230 M.2 E-Key (PCIe x1, USB2.0)
Internal I/O	1 x 4-pin box power connector (+12V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232/422/485) 2 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer header	1 x 4-pin box power connector (+12V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232/422/485) 2 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer header
Rear I/O	1 x Headphone Jack 2 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 2.0	1 x Headphone Jack 2 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 2.0
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MASLEASMR-SI (Box packing)	9MADN9ASMR-SI (Box packing)

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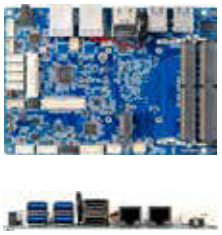
QBiP Series (3.5" SBC)



Model Name	QBiP-x6413EA	QBiP-6412A/ QBiP-6210A
CPU	Intel® Atom® x6413E Processor 10nm, 4 cores, 4 threads, up to 3.0 GHz	Intel® Celeron® J6412 Processor, 10nm, 4 cores, 4 threads, up to 2.6 GHz Intel® Celeron® N6210 Processor, 10nm, 2 cores, 2 threads,up to 2.6 GHz
Socket	FCBGA1493	FCBGA1493
Chipset	—	—
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x GbE LAN Ports (Intel® I210AT)	2 x GbE LAN Ports (Intel® I210AT)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors: 2 x HDMI 2.0 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors: 2 x HDMI 2.0 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port	1 x SATA 6Gb/s Port
Expansion Slots	1 x 2280 M.2 M-Key (PCIex2, SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIex2, SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232/422/485) 2 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer header	1 x 4-pin box power connector (+12V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232/422/485) 2 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer header
Rear I/O	1 x Headphone Jack 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1	1 x Headphone Jack 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1
TPM	—	—
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MEHLEASMR-SI (Box packing)	9MEHLJASMR-SI (Box packing) (QBiP-6412A) 9MEHLNASMR-SI (Box packing) (QBiP-6210A)

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QBiP Series (3.5" SBC)

Model Name	QBiP-4200B/ QBiP-4200C/ QBiP-3350A	QBiP-4200D/ QBiP-4200E/ QBiP-3350B
CPU	Intel® Pentium® N4200 Processor, 14nm, 4 cores, 4 threads, up to 2.5 GHz (QBiP-4200B/4200C) Intel® Celeron® N3350 Processor, 14nm, 2 cores, 2 threads, up to 2.4 GHz (QBiP-3350A)	Intel® Pentium® N4200 Processor, 14nm, 4 cores, 4 threads, up to 2.5 GHz (QBiP-4200B/4200C) Intel® Celeron® N3350 Processor, 14nm, 2 cores, 2 threads, up to 2.4 GHz (QBiP-3350A)
Socket	FCBGA1296	FCBGA1296
Chipset	SoC	SoC
Memory	2 x DDR3L SO-DIMM sockets, Max. Capacity 8 GB, Support Dual Channel DDR3L 1866 MHz	2 x DDR3L SO-DIMM sockets, Max. Capacity 8 GB, Support Dual Channel DDR3L 1866 MHz
Ethernet	2 x GbE LAN Ports (Intel® I211AT)	2 x GbE LAN Ports (Realtek® RTL8111H)
Graphic	Integrated Graphics Processor - Intel® HD Graphics 505: 1 x HDMI 1.4 1 x VGA 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® HD Graphics 505: 1 x HDMI 1.4 1 x VGA 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port 1 x eMMC 32GB (4200B only)	1 x SATA 6Gb/s Port 1 x eMMC 32GB (4200D only)
Expansion Slots	1 x 2242 M.2 M-Key (SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2242 M.2 M-Key (SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA power header 1 x System fan header 1 x Front panel header 1 x 2W Speaker out header 4 x USB 2.0 headers 3 x COM headers (RS-232) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer header	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA power header 1 x System fan header 1 x Front panel header 1 x 2W Speaker out header 4 x USB 2.0 headers 3 x COM headers (RS-232) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer header
Rear I/O	1 x Headphone Jack 1 x HDMI 1 x VGA 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1	1 x Headphone Jack 1 x HDMI 1 x VGA 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1
TPM	1 x TPM header	1 x TPM header
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MZAPLCSMR-SI (Box packing) (QBiP-4200B) 9MZAPLDSMR-SI (Box packing) (QBiP-4200C) 9MZAPLESMR-SI (Box packing) (QBiP-3350A)	9MAPLNASMR-SI (Box packing) (QBiP-4200D) 9MAPLNBSMR-SI (Box packing) (QBiP-4200E) 9MAPLNCSMR-SI (Box packing) (QBiP-3350B)

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QBiP Series (3.5" SBC)

Model Name	QBiP-E3940A	QBiP-E3940B	QBiP-1900A
CPU	Intel® Atom® x5-E3940 Processor 14nm, 4 cores, 4 threads, up to 1.8 GHz 2M Cache	Intel® Atom® x5-E3940 Processor 14nm, 4 cores, 4 threads, up to 1.8 GHz 2M Cache	Intel® Celeron® J1900 Processor 22nm, 4 cores, 4 threads, up to 2.42 GHz
Socket	FCBGA1296	FCBGA1296	FCBGA1170
Chipset	SoC	SoC	SoC
Memory	2 x DDR3L SO-DIMM sockets, Max. Capacity 8 GB, Support Dual channel DDR3L 1866 MHz	2 x DDR3L SO-DIMM sockets, Max. Capacity 8 GB, Support Dual channel DDR3L 1866 MHz	1 x DDR3L SO-DIMM sockets, Max. Capacity 8 GB, Support Single channel DDR3L 1333 MHz
Ethernet	2 x GbE LAN Ports (Intel® I211AT)	2 x GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® HD Graphics 500: 1 x HDMI 1.4 1 x VGA 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® HD Graphics 500: 1 x HDMI 1.4 1 x VGA 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® HD Graphics 500: 1 x HDMI 1.4 1 x VGA 1 x LVDS 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port	1 x SATA 6Gb/s Port	1 x SATA 3Gb/s Port
Expansion Slots	1 x 2242 M.2 M-Key (SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB2.0) -- support 3G module	1 x 2242 M.2 M-Key (SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB2.0) -- support 3G module	1 x 2280 M.2 M-Key (SATA 3Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin box power connector (+9V~36VDC Full Range) 1 x SATA Power header 1 x System fan header 1 x Front panel header 1 x 2W Speaker out header 4 x USB 2.0 headers 3 x COM headers (RS-232) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header 1 x Buzzer header	1 x 4-pin box power connector (+9V~36VDC Full Range) 1 x SATA Power header 1 x System fan header 1 x Front panel header 1 x 2W Speaker out header 4 x USB 2.0 headers 3 x COM headers (RS-232) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header 1 x Buzzer header	1 x 4-pin box power connector (DC in +9V~36VDC) (+48VDC Optional) 1 x SATA Power header 1 x System fan header 1 x Front panel header 1 x 2W Speaker out header 4 x USB 2.0 headers 2 x COM headers (RS-232) 1 x COM header (RS-232/422/485) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header 1 x Buzzer header
Rear I/O	1 x Headphone Jack 1 x HDMI 1 x VGA 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1	1 x Headphone Jack 1 x HDMI 1 x VGA 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1	1 x Headphone Jack 1 x HDMI 1 x VGA 2 x RJ45 LAN Ports 1 x USB 2.0 1 x USB 3.2 Gen 1
TPM	1 x TPM Header	1 x TPM Header	1 x TPM Header
Operating Temp.	0°C to 60°C	0°C to 60°C	0°C to 60°C
Ordering Information	9MAPLKASMR-SI (Box Packing)	9MAPLEASMR-SI (Box Packing)	9MBAYTASMR-SI (Box Packing)

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GIGAIPC

QBiP Series (3.5" SBC)

New

Model Name	QBiP-2314A	QBiP-2718A	QBiP-1605B
CPU	AMD® Ryzen™ R2314 Embedded Processor, 14nm, 4 cores, 4 threads, 2.1 GHz, up to 3.5 GHz	AMD Ryzen™ V2718 Embedded Processor, 7nm, 8 cores, 16 threads, 1.7 GHz, up to 4.15 GHz	AMD® Ryzen™ V1605B Embedded Processor, 14nm, 4 cores, 8 threads, 2.0 GHz, up to 3.6 GHz
Socket	FP5	FP6 BGA	FP5 type 1
Chipset	SoC	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2667 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2400/2133 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111HS)	2 x GbE LAN Ports (Realtek® RTL8118-CG)	2 x GbE LAN Ports (Realtek® RTL8111HS)
Graphic	Integrated Graphics Processor - AMD® Radeon™ Graphics: 4 x HDMI 2.0 1 x eDP (share from HDMI) 4 independent display outputs	Integrated Graphics Processor - AMD Radeon™ Graphics: 4 x HDMI 2.1 4 independent display outputs	Integrated Graphics Processor - AMD® Radeon™ Vega 8 Graphics: 4 x HDMI 2.0 1 x eDP (share from HDMI) 4 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port	1 x SATA 6Gb/s Port	1 x SATA 6Gb/s Port
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen 3x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA power header 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 2 x COM headers (RS-232) 1 x COM header (RS-232/422/485) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header	1 x 4-pin box power connector (DC in +9V~48VDC) 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 3 x COM headers (RS-232/422/485) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA power header 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 2 x COM headers (RS-232) 2 x COM headers (RS-232/422/485 & RI/5V/12V) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x eDP/HDMI jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer
Rear I/O	4 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1	4 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 2.0	4 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1
TPM	Onboard TPM 2.0 security chip INFINEON SLB9665TT2.0	1 x TPM header (LPC)	Onboard TPM 2.0 security chip INFINEON SLB9665TT2.0
Operating Temp.	0°C to 60°C	0°C to 60°C	0°C to 60°C
Ordering Information	9MRZR2MSMR-SI (Box packing)	9MRZV2MSMR-SI (Box Packing)	9MRZNVOSMR-SI (Box packing)

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QBiP Wide Temperature Series

Preliminary

Model Name	QBiP-1365UEBT/ QBiP-1335UEBT	QBiP-1185G7EBT/ QBiP-1145G7EBT	QBiP-1115G4EBT
CPU	Intel® Core™ i7-1365UE Processor, Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.9 GHz Intel® Core™ i5-1335UE Processor, Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.5 GHz	Intel® Core™ i7-1185G7E Processor 10nm SuperFin, 4 cores, 8 threads, up to 4.4 GHz, vPro support Intel® Core™ i5-1145G7E Processor 10nm SuperFin, 4 cores, 8 threads, up to 4.1 GHz, vPro support	Intel® Core™ i3-1115G4E Processor 10nm SuperFin, 2 cores, 4 threads, up to 3.90 GHz
Socket	FCBGA1744	FCBGA1449	FCBGA1449
Chipset	SoC	—	—
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual channel DDR4 3200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V)	2 x GbE LAN Ports (Intel® I219LM and Intel® I211AT)	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)
Graphic	Integrated Graphics Processor - Intel® Iris® Xe Graphics eligible: 2 x HDMI 2.0 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® Iris® Xᵉ Graphics: 2 x HDMI 2.0 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics: 1 x HDMI 2.0 1 x Display Port 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port (RAID 0/1)	1 x SATA 6Gb/s Port	1 x SATA 6Gb/s Port (RAID 0/1)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen 4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key 1 x Full-size Mini PCIe with SIM slot 1 x PCIe x1 (Board to Wire connector, PCIe Gen3 x1)	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key 1 x Full-size Mini PCIe with SIM slot 1 x PCIe x1 (Board to Wire connector, PCIe Gen3 x1)
Internal I/O	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 3 x COM headers (RS-232/422/485) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header	1 x 4-pin box power connector (DC in +9V~48VDC) 1 x SATA Power header 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 3 x COM headers (RS-232/422/485) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header 1 x SPI header	1 x 4-pin box power connector (DC in +9V~48VDC) 1 x SATA Power header 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 4 x USB 2.0 headers 3 x COM headers (RS-232/422/485) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8-bits) & SMBus header 1 x SPI header
Rear I/O	1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1	1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1	1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1
TPM	Onboard TPM 2.0 security chip INFINEON SLB9672VU2.0	1 x TPM header	1 x TPM header
Operating Temp.	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
Ordering Information	—	9MTGU7DSMR-SI1 (Box Packing) 9MTGU5DSMR-SI1 (Box Packing)	9MTGU3BSMR-SI1 (Box Packing)

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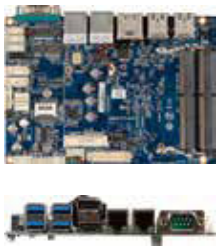
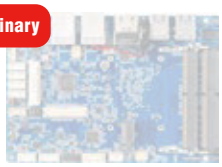
QBiP Wide Temperature Series



Preliminary



Model Name	QBiP-7200AT/ QBiP-7100AT	QBiP-x7433REAT	QBiP-x6413EAT
CPU	Intel® Core™ i5-7200U Processor, 14nm, 2 cores, 4 threads, up to 3.1GHz (QBiP-7200AT) Intel® Core™ i3-7100U Processor, 14nm, 2 cores, 4 threads, 2.4GHz (QBiP-7100AT)	Intel® Atom® x7433RE Processor Intel® 7, 4 cores, up to 3.40 GHz	Intel® Atom® x6413E Processor 10nm, 4 cores, 4 threads, up to 3.0 GHz
Socket	FCBGA1356	FCBGA1264	FCBGA1493
Chipset	SoC	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 2133 MHz	1 x DDR5 SO-DIMM sockets, Max. Capacity 16 GB, Support Single Channel DDR5 4800 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual channel DDR4 3200 MHz
Ethernet	2 x GbE LAN Ports (Intel® I219V and Intel® I211AT)	2 x 2.5GbE LAN ports (Intel® I225V)	2 x GbE LAN Ports (Intel® I210AT)
Graphic	Integrated Graphics Processor - Intel® HD Graphics 620: 1 x HDMI 2.0 1 x Display Port 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel UHD Graphics: 2 x HDMI 2.0 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors: 2 x HDMI 2.0 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	2 x SATA 6Gb/s Ports (RAID 0/1/5)	1 x SATA 6Gb/s Port	1 x SATA 6Gb/s Port
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x2) 1 x Full-size mini PCIe with SIM slot 1 x 2230 M.2 E-Key (PCIe x1, USB2.0)	1 x 2280 M.2 M-Key (PCIex2, SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin box power connector (+9V~36VDC) 2 x SATA power headers 1 x CPU fan header 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 3 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header	1 x 4-pin box power connector (+12V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232/422/485) 2 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer header	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x 2W Speaker out header 2 x USB 2.0 headers 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x COM header (RS-232/422/485) 2 x COM headers (RS-232) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer header
Rear I/O	1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x HDMI 1 x Display Port 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1	1 x Headphone Jack 2 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 2 x USB 2.0	1 x Headphone Jack 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 1
TPM	1 x TPM header	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	—
Operating Temp.	-20°C to 70°C	-40°C to 85°C	-40°C to 85°C
Ordering Information	9MFLP5ASMR-SI1 (Box packing) (QBiP-7200AT) 9MFLP3ASMR-SI1 (Box packing) (QBiP-7100AT)	9MASLEASMR-SI1 (Box packing)	9MEHLEASMR-SI1 (Box packing)

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QBiP Wide Temperature Series

Model Name	QBiP-E3940AT	QBiP-E3940BT
CPU	Intel® Atom® x5-E3940 Processor, 14nm, 4 cores, 4 threads, up to 1.8 GHz	Intel® Atom® x5-E3940 Processor, 14nm, 4 cores, 4 threads, up to 1.8 GHz
Socket	FCBGA1296	FCBGA1296
Chipset	SoC	SoC
Memory	2 x DDR3L SO-DIMM sockets, Max. Capacity 8 GB, Support Dual Channel DDR3L 1866 MHz	2 x DDR3L SO-DIMM sockets, Max. Capacity 8 GB, Support Dual Channel DDR3L 1866 MHz
Ethernet	2 x GbE LAN Ports (Intel® I211AT)	2 x GbE LAN Ports (Realtek® RTL8111H)
Graphic	Integrated Graphics Processor - Intel® HD Graphics 500: 1 x HDMI 1.4 1 x VGA 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® HD Graphics 500: 1 x HDMI 1.4 1 x VGA 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port	1 x SATA 6Gb/s Port
Expansion Slots	1 x 2242 M.2 M-Key (SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2242 M.2 M-Key (SATA 6Gb/s) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)
Internal I/O	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA power header 1 x System fan header 1 x Front panel header 1 x 2W Speaker out header 4 x USB 2.0 headers 3 x COM headers (RS-232) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer header	1 x 4-pin box power connector (+9V~36VDC) 1 x SATA power header 1 x System fan header 1 x Front panel header 1 x 2W Speaker out header 4 x USB 2.0 headers 3 x COM headers (RS-232) 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x Backlight Control header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) & SMBus header 1 x Buzzer header
Rear I/O	1 x Headphone Jack 1 x HDMI 1 x VGA 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1	1 x Headphone Jack 1 x HDMI 1 x VGA 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1
TPM	1 x TPM header	1 x TPM header
Operating Temp.	-40°C to 85°C	-40°C to 85°C
Ordering Information	9MAPLKASMR-SI1 (Box packing)	9MAPLEASMR-SI1 (Box Packing)

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QBi Series (10 x 10 Embedded Compact Board)

Model Name	QBi-1355A/ QBi-1335A/ QBi-1315EA	QBi-1165G7A/ QBi-1135G7A/ QBi-1115G4EA
CPU	Intel® Core™ i7-1355U Processor, Intel® 7, 10 cores, 2P+8E, 12 threads, up to 5.0 GHz (QBi-1355A) Intel® Core™ i5-1335U Processor, Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.6 GHz (QBi-1335A) Intel® Core™ i3-1315UE Processor, Intel® 7, 6 cores, 2P+4E, 8 threads, up to 4.5 GHz (QBi-1315EA)	Intel® Core™ i7-1165G7 Processor, 10nm SuperFin, 4 cores, 8 threads, up to 4.7 GHz (QBi-1165G7A) Intel® Core™ i5-1135G7 Processor, 10nm SuperFin, 4 cores, 8 threads, up to 4.2 GHz (QBi-1135G7A) Intel® Core™ i3-1115G4E Processor, 10nm SuperFin, 2 cores, 4 threads, up to 3.90 GHz (QBi-1115G4EA)
Socket	FCBGA1774	FCBGA1449
Chipset	SoC	SoC
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 5200 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	1 x 2.5 GbE LAN port (Intel® I226V) 1 x GbE LAN port (Realtek® RTL8111H)	2 x GbE LAN Ports (Intel® I219V and Realtek® RTL8118-CG)
Graphic	Integrated Graphics Processor - Intel® Iris® Xe Graphics eligible/UHD Graphics for 13th Gen Intel® Processors: 2 x HDMI 2.0 1 x DP 1.4 through USB Type C (DP Alt. mode) 3 independent display outputs	Integrated Graphics Processor - Intel® Iris® Xᵉ /UHD Graphics: 2 x HDMI 2.0 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port	—
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen 4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 2-pin power connector 1 x CPU fan header 1 x Front panel header 1 x USB 2.0 header 1 x SATA Power header	1 x 2-pin power connector 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x USB 2.0 header
Front IO	2 x USB 3.2 Gen 2x1 1 x USB 3.2 Type C Gen 2x1 (with DP Alt. mode) 1 x Power button 1 x COM Port (RS-232/422/485) 1 x Combo audio jack (Headphone & Headset)	2 x USB 3.2 Gen 2x1 1 x Power button 1 x COM Port (RS-232/422/485)
Rear IO	2 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 1 x Screw type DC Jack (+12V~24VDC)	2 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 1 x Screw type DC Jack (+9V~48VDC)
Side IO	—	—
TPM	Onboard TPM 2.0 security chip INFINEON SLB9672VU2.0	1 x TPM header
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MRLU7AHMR-SI (Box packing) (QBi-1355A) 9MRLU5AHMR-SI (Box packing) (QBi-1335A) 9MRLU3AHMR-SI (Box packing) (QBi-1315EA)	9MTGU7AHMR-SI (Box packing) (QBi-1165G7A) 9MTGU5AHMR-SI (Box packing) (QBi-1135G7A) 9MTGU3AHMR-SI (Box packing) (QBi-1115G4EA)

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QBi Series (10 x 10 Embedded Compact Board)

Model Name	QBi-8665A/ QBi-8365A	QBi-8565A/ QBi-8265A/ QBi-8145A
CPU	Intel® Core™ i7-8665UE Processor, 14nm, 4 cores, 8 threads, up to 4.4 GHz, vPro support (QBi-8665A) Intel® Core™ i5-8365UE Processor, 14nm, 4 cores, 8 threads, up to 4.1 GHz, vPro support (QBi-8365A)	Intel® Core™ i7-8565U Processor, 14nm, 4 cores, 8 threads, up to 4.6 GHz (QBi-8565A) Intel® Core™ i5-8265U Processor, 14nm, 4 cores, 8 threads, up to 3.9 GHz (QBi-8265A) Intel® Core™ i3-8145UE Processor, 14nm, 2 cores, 4 threads, up to 3.9 GHz (QBi-8145A)
Socket	FCBGA1528	FCBGA1528
Chipset	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2400 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2400 MHz
Ethernet	2 x GbE LAN Ports (Intel® I219LM and Realtek® RTL8111HS)	2 x GbE LAN Ports (Intel® I219V and Realtek® RTL8111HS)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics 620: 2 x HDMI 1.4 1 x eDP 3 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics 620: 2 x HDMI 1.4 1 x eDP 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port (RAID 0/1)	1 x SATA 6Gb/s Port (RAID 0/1)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 2-pin power connector 1 x SATA/eDP Power header 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x USB 2.0 header 1 x Vertical USB 3.2 Gen 1	1 x 2-pin power connector 1 x SATA/eDP power header 1 x CPU fan header 1 x Front panel header 1 x Front panel audio header 1 x USB 2.0 header 1 x Vertical USB 3.2 Gen 1
Front IO	2 x USB 3.2 Gen 2x1 1 x Power button 1 x COM Port (RS-232/422/485)	2 x USB 3.2 Gen 2x1 1 x Power button 1 x COM Port (RS-232/422/485)
Rear IO	2 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 1 x Screw type DC Jack (+9V~36VDC)	2 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 1 x Screw type DC Jack (+9V~36VDC)
Side IO	—	—
TPM	1 x TPM header (LPC)	1 x TPM header (LPC)
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MWHLUDHMR-SI (Box packing) (QBi-8665A) 9MWHLUEHMR-SI (Box packing) (QBi-8365A)	9MWHLUAHMR-SI (Box packing) (QBi-8565A) 9MWHLUBHMR-SI (Box packing) (QBi-8265A) 9MWHLUCHMR-SI (Box packing) (QBi-8145A)

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GIGAIPC

QBi Series (10 x 10 Embedded Compact Board)

New

Model Name	QBi-N97A	QBi-N97B
CPU	Intel Processor N97 Intel 7, 4 cores, up to 3.60 GHz	Intel Processor N97 Intel 7, 4 cores, up to 3.60 GHz
Socket	FCBGA1264	FCBGA1264
Chipset	SoC	SoC
Memory	1 x DDR5 SO-DIMM socket, Max. Capacity 16 GB Support Single Channel DDR5 4800 MHz	1 x DDR4 SO-DIMM socket, Max. Capacity 16 GB Support Single Channel DDR4 3200 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Realtek® RTL8111H)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics support: 2 x HDMI 2.0 port 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics support: 3 x HDMI 2.0 port 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port	1 x SATA 6Gb/s Port
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen 3x1, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe Gen 3x1, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 2-pin power connector 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 2 x USB 2.0 headers	1 x 2-pin power connector 1 x SATA Power header 1 x CPU fan header 1 x Front panel header 1 x Speaker out header 2 x USB 2.0 headers
Front IO	2 x USB 3.2 Gen 2x1 1 x Power button with LED 1 x COM Port (RS-232) 1 x Combo audio jack (Headphone & Headset)	2 x USB 3.2 Gen 2x1 1 x Power button with LED 1 x COM Port (RS-232) 1 x Combo audio jack (Headphone & Headset) 1 x HDMI
Rear IO	2 x RJ45 LAN Ports 2 x HDMI 2 x USB 3.2 Gen 2x1 1 x Screw type DC Jack (+12V~19VDC)	2 x RJ45 LAN Ports 2 x HDMI 2 x USB 3.2 Gen 2x1 1 x Screw type DC Jack (+12V~24VDC)
Side IO	—	—
TPM	Onboard TPM 2.0 security chip NUVOTON NPCT760AABYX	Onboard TPM 2.0 security chip NUVOTON NPCT760AABYX
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MADN9AHMR-SI (Box Packing)	9MADN9BHMR-SI (Box Packing)

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QBi Series (10 x 10 Embedded Compact Board)

Model Name	QBi-6412A/ QBi-6210A	QBi-6412B	QBi-4125A
CPU	Intel® Celeron® J6412 Processor, 10nm, 4 cores, 4 threads, up to 2.6 GHz (QBi-6412A) Intel® Celeron® N6210 Processor, 10nm, 2 cores, 2 threads, up to 2.6 GHz (QBi-6210A)	Intel® Celeron® J6412 Processor, 10nm, 4 cores, 4 threads, up to 2.6 GHz	Intel® Celeron® J4125 Processor, 14nm, 4 cores, 4 threads, up to 2.7 GHz
Socket	FCBGA1493	FCBGA1493	FCBGA1090
Chipset	SoC	SoC	SoC
Memory	1 x DDR4 SO-DIMM socket, Max. Capacity 32 GB, Support Single Channel DDR4 3200 MHz	1 x DDR4 SO-DIMM socket, Max. Capacity 32 GB, Support Single Channel DDR4 3200 MHz	1 x DDR4 SO-DIMM socket, Max. Capacity 8 GB, Support Single Channel DDR4 2400 MHz
Ethernet	2 x GbE LAN Ports (Intel® I211AT)	2 x GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Intel® I211AT and Realtek® RTL8111HS)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors: 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors: 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics 600: 2 x HDMI 1.4 1 x eDP 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port	1 x SATA 6Gb/s Port	1 x SATA 6Gb/s Port
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 2-pin power connector 1 x SATA power header 1 x CPU fan header 1 x Front panel header 2 x USB 2.0 headers	1 x 2-pin power connector 1 x SATA power header 1 x CPU fan header 1 x Front panel header 2 x USB 2.0 headers	1 x SATA power header 1 x CPU fan header 1 x power button header 2 x USB 2.0 headers 1 x Speaker out header
Front IO	2 x USB 3.2 Gen 2x1 1 x Power button 1 x COM Port (RS-232) 1 x Combo Audio Jack (Headphone & Headset)	2 x USB 3.2 Gen 2x1 1 x COM Port (RS-232) 1 x Combo Audio Jack (Headphone & Headset) 1 x Power button	2 x USB 3.2 Gen 1 1 x COM Port (RS-232) 1 x Headphone Jack 1 x Power button
Rear IO	2 x RJ45 LAN Ports 2 x HDMI 2 x USB 3.2 Gen 2x1 1 x Screw type DC Jack (+12V~19VDC)	2 x RJ45 LAN Ports 2 x HDMI 2 x USB 3.2 Gen 2x1 1 x Screw type DC Jack (+12V~19VDC)	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1 2 x HDMI 1 x DC Jack (+12V~19VDC)
Side IO	—	—	—
TPM	—	Onboard TPM 2.0 security chip Infineon SLB9670VQ2.0	—
Operating Temp.	0°C to 60°C	0°C to 60°C	0°C to 60°C
Ordering Information	9MEHLJAHMR-SI (Box packing) 9MEHLNAHMR-SI (Box packing)	9MEHLJBHMR-SI (Box packing)	9MGMLKAHMR-SI (Box packing)

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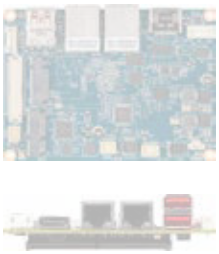
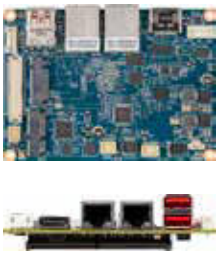
Pico-ITX Series

Preliminary



New



Model Name	PICO-X7433REA	PICO-N97A
CPU	Intel® Atom™ x7433RE Processor Intel® 7, 4 cores, up to 3.40 GHz	Intel® Processor N97 Intel® 7, 4 cores, up to 3.60 GHz
Socket	FCBGA1264	FCBGA1264
Package	—	—
Memory	1 x DDR5 SO-DIMM socket, Max. Capacity 32 GB Support Single Channel DDR5 4800 MHz	1 x DDR5 SO-DIMM socket, Max. Capacity 16 GB Support Single Channel DDR5 4800 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Realtek® RTL8111H)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics support: 1 x HDMI 2.0 1 x LVDS 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics support: 1 x HDMI 2.0 1 x LVDS 2 independent display outputs
Audio	—	—
Storage	—	—
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x2) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe Gen 3x2) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	1 x 2-pin box power connector (+12VDC) 1 x Front panel header 1 x COM header (RS-232/422/485) 2 x USB 2.0 headers 1 x GPIO (4-bits) header 1 x Backlight Control header	1 x 4-pin box power connector (+12VDC) 1 x Front panel header 1 x COM header (RS-232/422/485) 2 x USB 2.0 headers 1 x GPIO (4-bits) header 1 x Backlight Control header
Front I/O	—	—
Rear I/O	2 x USB 3.2 Gen 2 2 x RJ45 LAN Ports 1 x HDMI	2 x USB 3.2 Gen 2x1 2 x RJ45 LAN Ports 1 x HDMI
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MASLEAJMR-SI (Box packing)	9MADN9AJMR-SI (Box packing)

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Pico-ITX Series

Model Name	PICO-G350A PICO-G350B
CPU	MT8365 Arm® Quad-Core Cortex®-A53 up to 2.0GHz
Socket	—
Package	—
Memory	LPDDR4X 4GB (on board)
Ethernet	Integrated 100M Ethernet
Graphic	Integrated Graphics Processor – Mali-G52: 1 x HDMI 1 x LVDS (Optional) 1 x MIPI-DSI (Optional)
Audio	Integrated - Audio codec and amplifier
Storage	eMMC 8GB (on board) - For PICO-G350A, support Yocto OS eMMC 32GB (on board) - For PICO-G350B, support Android OS
Expansion Slots	1 x 2230 M.2 E-Key, support AW-CB451NF-D (IEEE 802.11a/b/g/n/ac Wireless LAN 2T2R and Bluetooth 5.1 Combo Module)
Internal I/O	1 x Front panel header 1 x Front audio header 1 x Speaker header (2W/4ohm) 2 x UART 2 x USB 2.0 headers (host) 1 x USB 2.0 header (OTG) 1 x GPIO (8 bits) header 1 x MIPI-DSI (optional) 1 x Micro SD Slot
Front I/O	1 x OTG USB (Internal micro-USB connector)
Rear I/O	1 x DC In power Jack - System adapter 12~24V 2 x USB 2.0 Ports (Host) 1 x RJ45 LAN Port 1 x HDMI
TPM	—
Operating Temp.	0°C to 60°C
Ordering Information	9MI350AJMR-SI (Box packing), including 8G eMMC, support Yocto OS (PICO-G350A) 9MI350BJMR-SI (Box packing), including 32G eMMC, support Android OS (PIC0-G350B)

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COM Express Series

Model Name	CE6-6412A
Form Factor	COM Express® R3.0 Compact Module Type 6 (95mm x 95mm)
CPU	Intel® Celeron® J6412 Processor 10nm, 4 cores, 4 threads, up to 2.60 GHz
Socket	FCBGA1493
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 3200 MHz
BIOS	AMI UEFI 256Mbit
Super I/O	ITE IT8613E/NX
Graphic Support	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors: - LCD : eDP 4096 x 2304 @ 60Hz - 2 x DDI ports support configurable HDMI/DisplayPort HDMI 2.0b: 4096 x 2160 @ 60Hz DisplayPort 1.4: 4096 x 2160 @ 60Hz 3 independent display outputs
Audio	Intel® HD Audio
Storage	2 x SATA 6Gb/s Ports
Expansion Slots	6 x PCI Express x1 (Gen3)
Internal header	2 x USB 3.2 (Gen2)(10Gb/s) 2 x USB 3.2 (Gen2)(10Gb/s) - Optional ports by PCIe Co-lay 8 x USB 2.0 Ports (480Mbps) 1 x eSPI 1 x SMBUS 1 x I2C 1 x GPIO (8 bits) 1 x System fan
Power Requirement	Vin: 8.5V ~ 20V; VSB: 4.75V ~ 5.25V; RTC Battery: 2.0V ~ 3.3V
Watch Dog	65536 level, 0 ~ 65535 sec
Operating Temp.	0°C to 60°C
Ordering Information	9MEHLJACMR-SI (Box packing)

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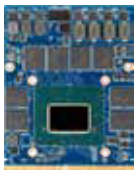
COM Express Series

Model Name	E6-EVBA	E6-EVBB
COM Express	PICMG COM Express® R3.0 Type6 Type 6 pinout compatible	PICMG COM Express® R3.0 Type6 Type 6 pinout compatible
Ethernet	2 x GbE LAN Ports (Realtek RTL8111H)	1 x GbE LAN Port
Graphic Support	Integrated Graphics Processor : 2 x HDMI 2.0 1 x LVDS or eDP 3 independent display outputs	Integrated Graphics Processor : 2 x HDMI 2.0 1 x DP 1 x LVDS (by Module) 1 x VGA (by Module) 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	1 x SATA 6Gb/s Port	4 x SATA 6Gb/s Port
Expansion Slots	1 x PCIe x1 (Gen3 x1) 1 x 2280 M.2 M-Key (SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB2.0)	1 x PCIe x16 6 x PCIe x1 (Gen3 x1) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB2.0)
Internal I/O	1 x 24 pin ATX main power connector 1 x SATA Power connector 1 x System fan header 1 x Front panel header 1 x Front panel audio header 4 x COM headers (RS-232/422/485 & RI/5V/12V) 1 x Backlight Control header 1 x 2W Speaker out header 2 x USB 2.0 headers 1 x Buzzer	1 x 24 pin ATX main power connector 4 x SATA Power connectors 1 x System fan header 1 x Front panel header 1 x Front panel audio header 1 x Backlight Control header 1 x 2W Speaker out header 1 x TPM header 1 x Buzzer
Rear I/O	2 x Audio Jacks (Line out, Mic in) 2 x HDMI 2 x RJ45 LAN Ports 3 x USB 3.2 Gen 1 1 x USB 2.0	2 x Audio Jacks (Line out, Mic in) 2 x HDMI 1 x DP 1 x VGA 1 x RJ45 LAN Port 4 x USB 3.2 Gen 1 2 x USB 2.0
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9CICC1MR-SI (Box packing)	9CICC2MR-SI (Box packing)

MXM Series



Model Name	MXM-A-A370M	MXM-B-A730M
Dimension	MXM module type A (82mm x 70mm)	MXM module type B (82mm x 105mm)
Processor	Intel® Arc™ A370M Graphics Microarchitecture : Xe HPG Xe-cores : 8 Intel® XMX Engines : 128 Graphics clock : 1550 MHZ TGP : 35-50W	Intel® Arc™ A730M Graphics Microarchitecture : Xe HPG Xe-cores : 24 Intel® XMX Engines : 384 Graphics clock : 1100 MHZ TGP : 80-120W
PCI Express Configurations	PCI Express 4.0 x8	Up to PCI Express 4.0 x16
Memory	GDDR6 4GB, 64bit memory bus Memory speed: 14 Gbps Bandwidth: 112 GB/s	GDDR6 12GB, 192bit memory Bus Memory speed : 14 Gbps Bandwidth: 336 GB/s
Graphics	Reserved 4 x DP 2.0 4 independent display outputs	Reserved 4 x DP 2.0 4 independent display outputs
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9CMBIE1MR-SI (Box packing)	9CMBIE2MR-SI (Box packing)

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