

GIGAIPC™



Building a Smarter Tomorrow

2026 Product Catalog 1H

Company Profile

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.



Company Profile/ Naming Rule

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



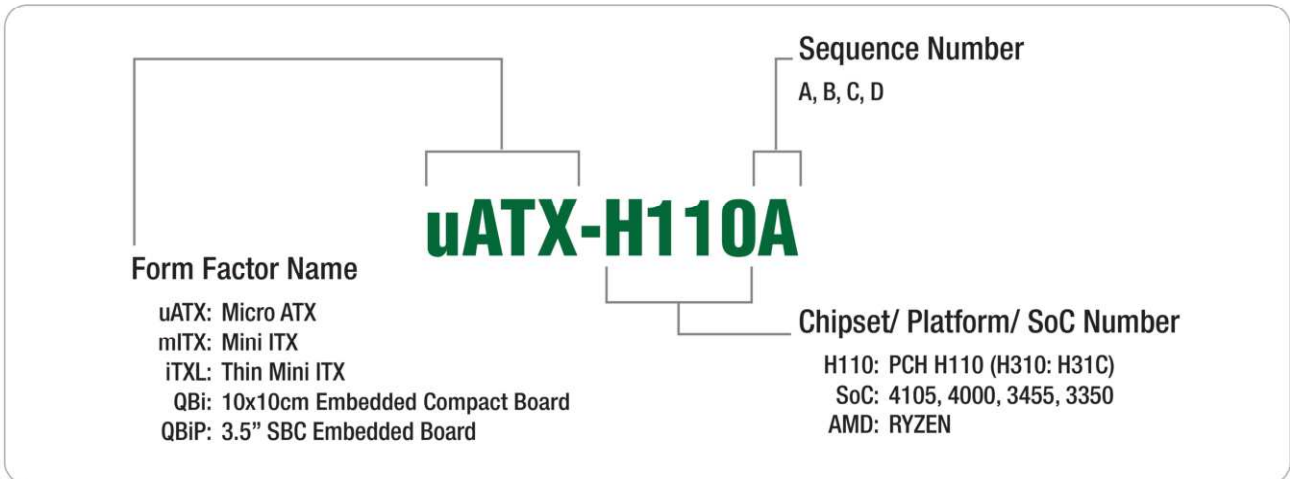
“Building a SMARTER Tomorrow”

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.

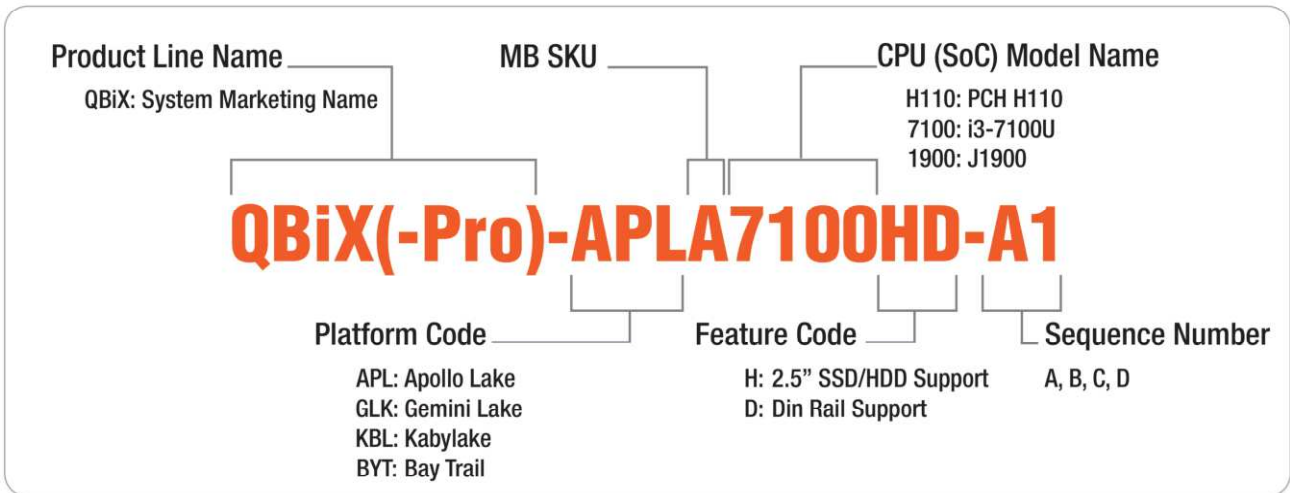
Key Advantages to work with GIGAIPC

Technology	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Worldwide RMA service coverage more than 80 service centers globally
Capability	<ol style="list-style-type: none"> 1. Customization capability 2. Direct field application engineer support and quick response 3. Customized manufacturing process, quality control and delivery solutions

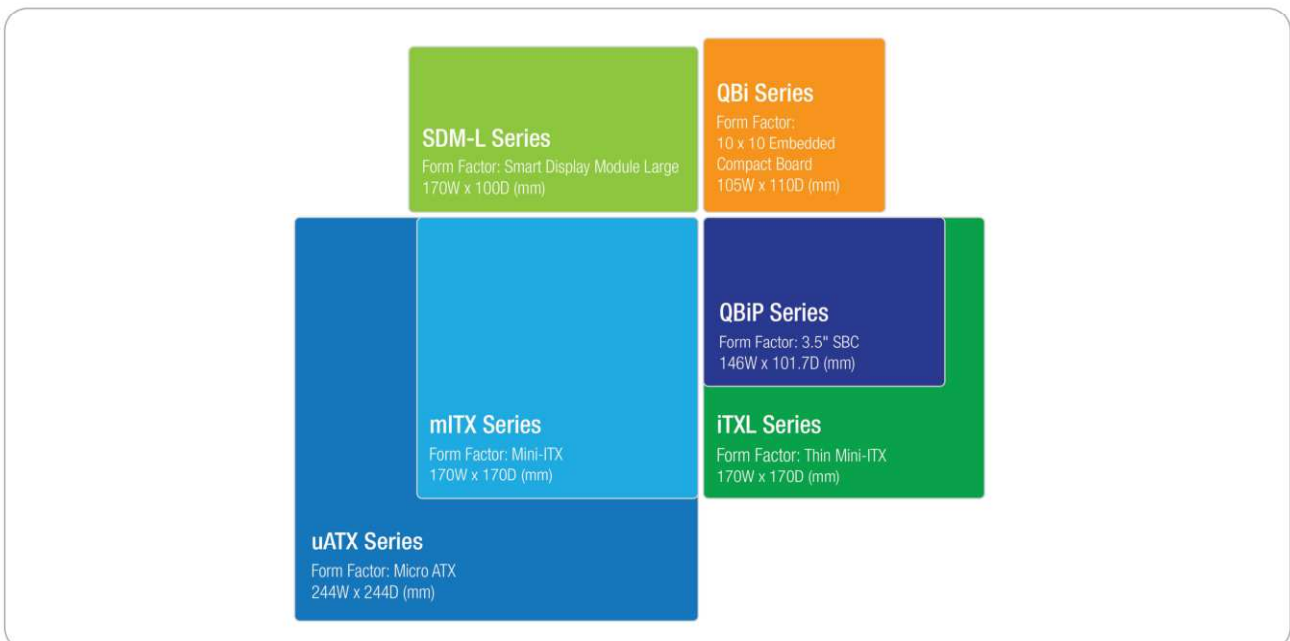
Motherboard's Naming Rule -



System's Naming Rule -



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QBiX Series



Preliminary



QBiX Series

Model Name	QBiX-RPLA1355H-A1 QBiX-RPLA1335H-A1 QBiX-RPLA1315EH-A1	QB-Wildcat lake
Dimension	138W x 118D x 74.2H (mm)	118W x 109.4D x 44.4H (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® Wildcat lake Core 7/5/3 TDP 15W
Chipset	SoC	SoC
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 5200 MHz	1 x DDR5 SO-DIMM socket, Max. Capacity 16 GB, Support Single Channel DDR5 4800 MHz
Ethernet	1 x GbE LAN Port (Realtek® RTL8111H) 1 x 2.5GbE LAN Port (Intel® I226V)	2 x GbE LAN Ports (Realtek® RTL8111H)
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® Arc Xe3: 2 x HDMI 2.0 1 x DP 1.4 through USB Type C (DP Alt. mode) 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	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 Gen 3x1, 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 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 COM Port (RS-232) 1 x Combo Audio Jack (Headphone & Headset) 1 x Power button with LED 1 x USB 3.2 Type C with DP 1.4b (DP Alt. mode)
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 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 INFINEON SLB9672VU2.0	Onboard TPM 2.0 security chip NUVOTON NPCT760AABYX
Power	+12V~24VDC (Adapter 19.5V/135W)	+12V~19VDC (Adapter 19V/65W)
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	Wall mount	VESA 75/100
Ordering Information	6BQB1355AMR-SI (Box packing) 6BQB1335AMR-SI (Box packing) 6BQB1315AMR-SI (Box packing)	TBD
Built-in Components	—	—

QBiX Series

New



Model Name	QB-N150A	QBiX-ADNAN97-A1
Dimension	118W x 109.4D x 44.4H (mm)	118W x 109.4D x 44.4H (mm)
CPU	Intel® Processor N150 Intel® 7, 4 cores, up to 3.6 GHz	Intel® Processor N97 Intel® 7, 4 cores, up to 3.6 GHz
Chipset	SoC	SoC
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 GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Realtek® RTL8111H)
Graphic	Integrated Graphics Processor - Intel® Graphics : 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® UHD Graphics : 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 Gen 3x1, 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 1 x USB 3.2 Type C with DP 1.4b (DP Alt. mode)	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	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	6BQBN150AMR-SI (Box packing)	6BQBN970AMR-SI (Box packing)
Built-in Components	—	—

QBiX Series



QBiX Series/ QBiX-Pro Series

Model Name	QBiX-EHLA6412-A1	QBiX-EHLB6412-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® J6412 Processor 10nm, 4 cores, 4 threads, up to 2.6 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 32 GB, Support Single Channel DDR4 3200 MHz
Ethernet	2 x GbE LAN Ports (Intel® I210AT)	2 x GbE LAN Ports (Realtek® RTL8111H)
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	—	—
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)
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 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	6BQB6412AMR-SI (Box packing)	6BQB6412BMR-SI (Box packing)
Built-in Components	—	—

QBiX-Pro Series

Preliminary



Model Name	QF-7433A QF-N150A
Dimension	172W x 105.8D x 44H(mm)
CPU	Intel® Atom® x7433RE Processor Intel 7, 4 cores, up to 3.40 GHz Intel® Processor N150 Intel 7, 4 cores, up to 3.60 GHz
Chipset	SoC
Memory	1 x DDR5 SO-DIMM sockets, Max. Capacity 16 GB, Support Single channel DDR5 4800 MHz
Ethernet	6 x 2.5GbE LAN Ports (Realtek RTL8125D)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics: 1 x HDMI 1.4 port
Audio	—
Storage	1 x 2.5" HDD/SSD (SATA 6Gb/s)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen3x2) 1 x 2230 M.2 E-Key
Front I/O	1 x HDMI 1 x 8bits GPIO 2 x USB 3.2 Gen2 2 x USB 2.0 1 x Power button 1 x Power LED & HDD LED 6 x LAN status LED
Rear I/O	6 x RJ45 LAN Ports 1 x Console (RJ45-RS232) 1 x DC Jack (Screw Type) 12V~36V
Side I/O	—
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Power	—
Operating Temp.	0°C to 60°C
Mounting	1U Rack mount kits (Optional)
Ordering Information	TBD
Built-in Components	—

QBiX-Pro Series

Preliminary



Preliminary



QBiX-Pro Series

Model Name	QBiX-Pro-Panther lake-A1	QBiX-Pro-Panther lake-A2
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	Intel® Core™ Ultra processors (Series 3), Panther Lake H 12Xe, H484, H404	Intel® Core™ Ultra processors (Series 3), Panther Lake H 12Xe, H484, H404
Chipset	SoC	SoC
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR5 6400/7200 MHz	2 x DDR5 SO-DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR5 6400/7200 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® Arc Xe3: 2 x HDMI 2.0 (support CEC) 2 independent display outputs	Integrated Graphics Processor - Intel® Arc Xe3: 2 x HDMI 2.0 (support 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 Gen 4x4) (PCIe Gen 5x4 design ready) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x PCIe x4 connector (2* PCIe x2 (2280) , 2.5" SSD Card size) 1 x Full-size Mini PCIe with SIM slot	1 x 2280 M.2 M-Key (PCIe Gen 4x4) (PCIe Gen 5x4 design ready) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x PCIe x4 connector (2* PCIe x2 (2280) , 2.5" SSD Card size) 1 x Full-size Mini PCIe with SIM slot
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 Combo Audio Jack (Headphone & Headset) 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 Combo Audio Jack (Headphone & Headset) 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 INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Power	A1: 9V~36VDC (Full Range)	A2: 9V~36VDC (TBD)
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	TBD	TBD
Built-in Components	—	—

QBiX-Pro Series

New



New



Model Name	QBiX-Pro-ARUA255H-A1 QBiX-Pro-ARUA225H-A1	QBiX-Pro-ARUA255H-A2 QBiX-Pro-ARUA225H-A2
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	Intel® Core™ Ultra 7 Processor 255U Intel® 3, 12 cores, 2P+8E+2LPE, 14 threads, up to 5.20 GHz Intel® Core™ Ultra 5 Processor 225U Intel® 3, 12 cores, 2P+8E+2LPE, 14 threads, up to 4.8 GHz	Intel® Core™ Ultra 7 Processor 255U Intel® 3, 12 cores, 2P+8E+2LPE, 14 threads, up to 5.20 GHz Intel® Core™ Ultra 5 Processor 225U Intel® 3, 12 cores, 2P+8E+2LPE, 14 threads, up to 4.8 GHz
Chipset	SoC	SoC
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 96 GB Support Dual Channel DDR5 5600 MHz memory modules or 2 x DDR5 CSO-DIMM sockets, Max. Capacity 128 GB Support Dual Channel DDR5 6400 MHz memory modules	2 x DDR5 SO-DIMM sockets, Max. Capacity 96 GB Support Dual Channel DDR5 5600 MHz memory modules or 2 x DDR5 CSO-DIMM sockets, Max. Capacity 128 GB Support Dual Channel DDR5 6400 MHz memory modules
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 2.1 (HDMI 2 port support CEC) 2 independent display outputs	Integrated Graphics Processor - Intel® Graphics: 2 x HDMI 2.1 (HDMI 2 port support 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 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 Combo Audio Jack (Headphone & Headset) 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 Combo Audio Jack (Headphone & Headset) 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 INFINEON SLB9672XU2.0	Onboard TPM 2.0 security chip INFINEON SLB9672XU2.0
Power	A1: 9V~36VDC (Full Range)	A2: 9V~36VDC (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	6BQP255UAMR-SI (Box packing) 6BQP225UAMR-SI (Box packing)	6BQP255UAMR-SI (Box packing) 6BQP225UAMR-SI (Box packing)
Built-in Components	—	—

QBiX-Pro Series

New



New



QBiX-Pro Series

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+2LPE, 14 threads, up to 4.8 GHz Intel® Core™ Ultra 5 Processor 125U Intel® 4, 12 cores, 2P+8E+2LPE, 14 threads, up to 4.3 GHz	Intel® Core™ Ultra 7 Processor 155U Intel® 4, 12 cores, 2P+8E+2LPE, 14 threads, up to 4.8 GHz Intel® Core™ Ultra 5 Processor 125U Intel® 4, 12 cores, 2P+8E+2LPE, 14 threads, up to 4.3 GHz
Chipset	SoC	SoC
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 96 GB Support Dual Channel DDR5 5600 MHz memory modules	2 x DDR5 SO-DIMM sockets, Max. Capacity 96 GB Support Dual Channel DDR5 5600 MHz memory modules
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 2.1 (HDMI 2 port support CEC) 2 independent display outputs	Integrated Graphics Processor - Intel® Graphics: 2 x HDMI 2.1 (HDMI 2 port support 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 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 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 SLB9672XU2.0	Onboard TPM 2.0 security chip INFINEON SLB9672XU2.0
Power	A1: 9V~36VDC (Full Range)	A2: 9V~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	—	—

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 INFINEON 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	—	—

QBiX-Pro Series

Preliminary



Preliminary



QBiX-Pro Series

Model Name	QBiX-Pro-Wildcat lake-A1	QBiX-Pro-Wildcat lake-A2
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	Intel® Wildcat lake Core 7/5/3	Intel® Wildcat lake Core 7/5/3
Chipset	SoC	SoC
Memory	1 x DDR5 SO-DIMM sockets, Max. Capacity 32 GB, Support Single Channel DDR5 6400 MHz	1 x DDR5 SO-DIMM sockets, Max. Capacity 32 GB, Support Single Channel DDR5 6400 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V/LM)	2 x 2.5GbE LAN Ports (Intel® I226V/LM)
Graphic	Integrated Graphics Processor - Intel® Arc Xe3: 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® Arc Xe3: 2 x HDMI 2.0 2 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	UFS 3.1	UFS 3.1
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen3x2) 1 x 2230 M.2 E-Key 1 x Full-size mini PCIe with SIM slot (CLK_REQ_by R Jumer)	1 x 2280 M.2 M-Key (PCIe Gen3x2) 1 x 2230 M.2 E-Key 1 x Full-size mini PCIe with SIM slot (CLK_REQ_by R Jumer)
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-232/422/485 & RI/5V/12V) 1 x GPIO (8 bits) 1 x Remote control 1 x 3-pin Terminal Block	2 x USB 2.0 1 x COM Port (RS-232/422/485) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x GPIO (8 bits) 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 INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Power	+12V~36VDC (Full Range)	+12V~36VDC (TBD)
Operating Temp.	-20°C to 70°C	-20°C to 70°C
Mounting	Wall mount (Optional) / VESA mount (Optional)	Wall mount (Optional) / VESA mount (Optional)
Ordering Information	TBD	TBD
Built-in Components	—	—

QBiX-Pro Series



Model Name	QBiX-Pro-AMLA7433REH-A1	QBiX-Pro-AMLA7433REH-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, up to 3.4 GHz	Intel® Atom® x7433RE Processor Intel 7, 4 cores, up to 3.4 GHz
Chipset	SoC	SoC
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)
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 Gen3x2) 1 x 2230 M.2 E-Key 1 x Full-size Mini PCIe with SIM slot (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe Gen3x2) 1 x 2230 M.2 E-Key 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-232/422/485 & RI/5V/12V) 1 x GPIO (8 bits) 1 x Remote control 1 x 3-pin Terminal Block	2 x USB 2.0 1 x COM Port (RS-232/422/485) 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x GPIO (8 bits) 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 INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Power	+12V~36VDC (Full Range)	+12V~36VDC (Adapter 19V/65W)
Operating Temp.	-20°C to 70°C	-20°C to 70°C
Mounting	Wall mount (Optional) / VESA mount (Optional)	Wall mount (Optional) / VESA mount (Optional)
Ordering Information	6BQP7433AMR-SI (Box packing)	6BQP7433AMR-SI (Box packing)
Built-in Components	—	—

QBiX-Pro Series

New



New



QBiX-Pro Series

Model Name	QP-N150A-A1	QP-N150A-A2
Dimension	178W x 125D x 52.7H (mm)	178W x 125D x 52.7H (mm)
CPU	Intel® Processor N150 Intel 7, 4 cores, up to 3.60 GHz	Intel® Processor N150 Intel 7, 4 cores, up to 3.60 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® I226V)	2 x 2.5GbE LAN Ports (Intel® I226V)
Graphic	Integrated Graphics Processor - Intel® Graphics support: 2 x HDMI 2.0 2 independent display outputs	Integrated Graphics Processor - Intel® 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 Remote control 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 Remote control 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	6BQPN150AMR-SI (Box packing)	6BQPN150AMR-SI (Box packing)
Built-in Components	—	—

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	—	—

QBiX-Pro Series



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	—	—

QBiX-Pro Series



Model Name	QBiX-Pro-AMDA2314H-A1	QBiX-Pro-AMDA2314H-A2
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™ R2314 Embedded Processor 14nm, 4 cores, 4 threads, 2.1 GHz, up to 3.5 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 64 GB, Support Dual Channel DDR4 2667 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111H-CG)	2 x GbE LAN Ports (Realtek® RTL8111H-CG)
Graphic	Integrated Graphics Processor- AMD® Radeon™ Graphics: 4 x HDMI 2.0 4 independent display outputs	Integrated Graphics Processor- AMD® Radeon™ 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 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)
Front I/O	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 4 x HDMI 1 x Power button with LED 1 x HDD LED 1 x External Antenna Hole (Optional)	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1 4 x HDMI 1 x Power button with LED 1 x HDD LED 1 x External Antenna Hole (Optional)
Rear I/O	2 x USB 2.0 1 x GPIO (8 bits) 2 x COM Port (RS-232/422/485) 1 x Remote control 1 x 3-pin Terminal Block 1 x Combo audio jack (Headphone & Headset)	2 x USB 2.0 1 x GPIO (8 bits) 2 x COM Port (RS-232/422/485) 1 x Remote control 1 x Screw Type DC Jack 1 x Combo audio jack (Headphone & Headset)
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 (Full Range)	+9V~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	6BQP2314AMR-SI (Box packing)	6BQP2314AMR-SI (Box packing)
Built-in Components	—	—

QBiX-DIN Rail Series



Model Name	QBiX-DR-AMLA7433REH-A1	QBiX-DR-EHLA6412H-A1
Dimension	160W x 118D x 62.6H (mm)	160W x 118D x 62.6H (mm)
CPU	Intel® Atom® x7433RE Processor Intel 7, 4 cores, up to 3.40 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 2.5GbE LAN Ports (Intel® I226IT)	2 x GbE LAN Ports (Intel® I210AT)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics: 1 x HDMI 2.0 1 x VGA 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics for 10th Gen Intel® Processors: 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 (PCIe Gen3x1, 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 3052/3042 M.2 B key with SIM Slot –4G/5G Support 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 Combo audio jack (Headphone & Headset) 1 x External Antenna Hole (Optional)	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)
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 1 x COM Port (RS-232/422/485 & RI/5V/12V) 1 x CANBus 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 & RI/5V/12V) 2 x External Antenna Holes (Optional)
TPM	Onboard TPM 2.0 security chip Nuvoton NPCT764AABYX	—
Power	+9V~36VDC (Full Range)	+9V~36VDC (Full Range)
Operating Temp.	-20°C to +70°C	0°C to 50°C
Mounting	DIN Rail	DIN Rail
Ordering Information	6BDR7433AMR-SI (Box packing)	6BDR6412AMR-SI (Box packing)
Built-in Components	Please contact with your sales representative for more information or e-mailed to : sales@gigaipc.com	—

QBiX-Expert Series



Model Name	QBiX-Expert-RPLA1340PH-A1 QBiX-Expert-RPLA1320PEH-A1
Dimension	210.36W x 165D x 65H (mm)
CPU	Intel® Core™ i5-1340P Processor Intel® 7, 12 cores, 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
Memory	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) 4 x GbE LAN Ports (Intel® I226V) 4 x GbE LAN Ports with POE support (Intel® I226V)
Graphic	Integrated Graphics Processor - Intel® Iris X® Graphics eligible/Intel® UHD Graphics for 13th Gen Intel® Processors: 2 x HDMI 2.0 2 independent display outputs
Audio	Realtek® Audio Codec
Storage	2 x Swappable 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 3052 M.2 B-Key with SIM slot
Front I/O	4 x RJ45 LAN Ports with POE 4 x RJ45 LAN Ports 1 x GPIO (8 bits) 1 x HDD LED 1 x Power button with LED 1 x Combo audio jack (Headphone & Headset)
Rear I/O	2 x RJ45 LAN Ports 1 x COM Port (RS-232/422/485 & RI/5V/12V) 3 x COM Ports (RS-232/422/485) 4 x USB 3.2 Gen 1 4 x USB 2.0 2 x HDMI 1 x Ignition support (3-pin) 1 x 4-pin Terminal Block
Side I/O	4 x External Antenna Holes (wifi/5G) - Optional
TPM	Onboard TPM 2.0 security chip INFINEON SLB9672XU2.0
Power	+19~36VDC
Operating Temp.	0°C to 50°C
Mounting	—
Ordering Information	6BQE1340AMR-SI (Box Packing) 6BQE1320AMR-SI (Box Packing)
Built-in Components	—

QBiX-ITX Series



QBiX-ITX Series/ QBiX-Jumbo Series

Model Name	QBiX-ITX-Chassis Kit
Dimension	210W x 200D x 58H (mm)
Support Model	mITX-Q870A mITX-H810A mITX-Q670B mITX-H610B mITX-Q670A mITX-H610A
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	—

QBiX-Jumbo Series



Model Name	QBiX-JMB-ADLA67EH-B1	QBiX-JMB-ADLA67EHD-B1
Dimension	224W x 256.1D 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) 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)	4 x 2.5" HDD/SSD (SATA 6Gb/s) 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)
Expansion Slots		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	—	—

QBiX-Jumbo Series



QBiX-Jumbo Series/ QBiX WP 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) 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)	4 x 2.5" HDD/SSD (SATA 6Gb/s) 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)	4 x 2.5" HDD/SSD (SATA 6Gb/s) 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)
Expansion Slots	1 x PCIe x4 (Gen3 x4) 1 x PCIe x16 (Gen3 x16)	1 x PCIe x4 (Gen3 x4) 1 x PCIe x16 (Gen3 x16)	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-WP Series

New



Model Name	QBiX-WP-ADLA1235UH-A1	QBiX-WP-APLA3940H-A1
Dimension	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® Atom® x5-E3940 Processor 14nm, 4 cores, 4 threads, up to 1.8 GHz
Chipset	SoC	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 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® I211AT)
Graphic	Integrated Graphics Processor - Intel® Iris® Xe Graphics: 1 x HDMI 2.0	Integrated Graphics Processor - Intel® HD Graphics 500: 1 x HDMI 1.4
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 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
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 Jack
Power	+9V~36VDC	+9V~36VDC
Operating Temp.	-20°C to 70°C	-20°C to 80°C
Ordering Information	—	9BQW3940AMR-SI (Box packing)
Build in Components	Please contact with your sales representative for more information or e-mailed to : sales@gigaipc.com	

QBiX-Jetson Series

Preliminary



Preliminary



Model Name	QN-ORAX64-A1	QN-ORAX32-A1
Dimension	175W x 145D x 85H (mm)	175W x 145D x 85H (mm)
SOC	Nvidia Jetson AGX Orin 64GB - Optional	Nvidia Jetson AGX Orin 32GB
GPU	2048-core NVIDIA Ampere architecture GPU with 64 Tensor Cores	1792-core NVIDIA Ampere architecture GPU with 56 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
Memory	64GB 256-bit LPDDR5 204.8GB/s	32GB 256-bit LPDDR5 204.8GB/s
Ethernet	1 x GbE RTL8211F-CG 1 x GbE PCIE RTL8111H 4 x (PCIE) 10/100/1000Mbps Ethernets (Optional 2 Ports PoE support) - RTL8111H (POE: Total 30W, 2 Ports x 15W)	1 x GbE RTL8211F-CG 1 x GbE PCIE RTL8111H 4 x (PCIE) 10/100/1000Mbps Ethernets (Optional 2 Ports PoE support) - RTL8111H (POE: Total 30W, 2 Ports x 15W)
Graphic	1 x HDMI 2.0	1 x HDMI 2.0
Audio	—	—
Storage	1 x 64G eMMC 5.1 (Module) 2 x 2280 M.2 M-Key (PCIe GEN4)	1 x 32G eMMC 5.1 (Module) 2 x 2280 M.2 M-Key (PCIe GEN4)
Expansion Slots	2 x 2280 M.2 M-Key (PCIe x4) 1 x 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)	2 x 2280 M.2 M-Key (PCIe x4) 1 x 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)
Front I/O	2 x USB 3.2 Gen 2 1 x USB 3.2 Gen 2 Type-C (OTG) 1 x Power button with LED 1 x HDD LED 1 x Combo audio jack (Headphone & Headset) 1 x Remote control header 1 x COM Port (RS-232) 1 x COM Port (RS-232/422/485) 1 x CANBus 2.0b, isolated (DB9) 6 x User defined LEDs (GPIO for user programming) 1 x LAN OOB support (Optional) 1 x Recovery button	2 x USB 3.2 Gen 2 1 x USB 3.2 Gen 2 Type-C (OTG) 1 x Power button with LED 1 x HDD LED 1 x Combo audio jack (Headphone & Headset) 1 x Remote control header 1 x COM Port (RS-232) 1 x COM Port (RS-232/422/485) 1 x CANBus 2.0b, isolated (DB9) 6 x User defined LEDs (GPIO for user programming) 1 x LAN OOB support (Optional) 1 x Recovery button
Rear I/O	1 x 3-pin Terminal Block 4 x GbE LAN Ports 2 x GbE LAN Ports (Support POE) 1 x HDMI 2 x USB 3.2 Gen 2 1 x GPIO (8 bits)	1 x 3-pin Terminal Block 4 x GbE LAN Ports 2 x GbE LAN Ports (Support POE) 1 x HDMI 2 x USB 3.2 Gen 2 1 x GPIO (8 bits)
Side I/O	4 x External Antenna Holes (Optional) 1 x Fan USB	4 x External Antenna Holes (Optional) 1 x Fan USB
Power	+19V~24VDC (Terminal Block)	+19V~24VDC (Terminal Block)
Operating Temp.	-20°C to 50°C	-20°C to 50°C
Ordering Information	9BQNORAXBMR-SI (Box packing)	9BQNORAXAMR-SI (Box packing)
Build in Components	—	—

QBiX-Jetson Series

New



Model Name	QN-ORN16GH-A1	QN-ORN16
Dimension	210W x 169.8D x 55.2H (mm)	124W x 127.6D x 47.7H (mm)
SOC	Nvidia Jetson Orin NX 16GB	NVIDIA® Jetson Orin™ NX 16GB
GPU	1024 NVIDIA CUDA cores with 32 Tensor cores	1024-core NVIDIA CUDA Ampere architecture GPU with 32 Tensor Cores
CPU	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
Memory	16GB 128-bit LPDDR5	16GB 128-bit LPDDR5
Ethernet	8 x GbE LAN with PoE 15W/port (IEEE802.3af) 2 x GbE LAN	1 x GbE LAN
Graphic	1 x HDMI 2.0	1 x HDMI 2.0
Audio	—	—
Storage	1 x SATA 6Gb/s (Swappable 2.5" HDD/SSD)	1 x 2280 M.2 SSD (PCIe Gen3x2)
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen4x1) for SSD 1 x 3052 M.2 B-Key for 4G/5G card (USB3 only) 1 x 2230 M.2 E-Key 1 x Mini PCIe slot 1 x SIM slot	1 x 2280 M.2 M-Key (PCIe Gen4x4, Support HDMI Capture card) 1 x 2230 M.2 E-Key
Front I/O	1 x USB 2.0 Type Micro B 1 x HDMI 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 USB 3.2 Gen 1 Type C, 5V/1A (not support USB to NVME dock) 2 x USB 2.0 1 x Power button with LED 1 x Recovery button
Rear I/O	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	1 x Scrw type DC Jack 1 x RJ45 LAN Port 1 x HDMI 2 x USB 3.2 Gen2x2 2 x External Antenna Holes (Optional)
Side I/O	4 x External Antenna Holes (Optional)	—
Power	+54VDC (PoE support)	+19VDC
Operating Temp.	-20°C to 70°C	0°C to 40°C
Ordering Information	9BQNORNXCMT-SI (Box packing)	9BQNORNXDMS-SI (Box packing)
Build in Components	—	—

QBiX-Plus Series



Model Name	QS-N150A	QBiX-Plus-EHLA6412-A1
Dimension	165W x 105D x 27H (mm)	165W x 105D x 27H (mm)
CPU	Intel® Processor N150 Intel® 7, 4 cores, up to 3.6 GHz	Intel® Celeron® J6412 Processor 10nm, 4 cores, 4 threads, up to 2.6 GHz
Chipset	—	—
Memory	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 (Realtek® RTL8111H)	2 x GbE LAN Ports (Realtek® RTL8118)
Graphic	Integrated Graphics Processor - Intel® Graphics 3 x HDMI 2.0 (HDMI 1 & 2 port support CEC) 3 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics for 10th Intel® Processor 3 x HDMI 2.0 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	—	—
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen3x1, 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 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 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	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 Combo audio jack (Headphone & Headset) 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1 2 x HDMI 1 x DC Jack	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)	3 x External Antenna Holes (Optional)
TPM	—	—
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	6BQSN150AMR-SI (Box packing)	6BQS6412AMR-SI (Box packing)
Built-in Components	—	—

QBiX-Mini Series

Preliminary



Model Name	PD-N500A-A2 PD-N100A-A2
Dimension	120W x 170D x 35H (mm)
CPU	Intel® Processor N50 Intel® 7, 2 cores, up to 3.4 GHz Intel® Processor N100 Intel® 7, 4 cores, up to 3.4 GHz
Chipset	—
Memory	DDR5 8GB (on board)
Ethernet	Realtek® RTL8111H
Graphic	Integrated Graphics Processor - Intel® UHD Graphics 2 x HDMI 2.0 (1 x HDMI port support CEC) 2 independent display outputs
Audio	—
Storage	16GB eMMC (on board)
Expansion Slots	1 x 2280 M.2 M-key (SATA 6Gb/s) 1 x 2230 M.2 E-key slot
Front I/O	1 x RJ45 LAN Port 2 x USB 3.2 Gen 2x1 2 x HDMI 1 x DC IN (12~19V) 2 x External Antenna Holes (Optional)
Rear I/O	1 x Power button with LED 1 x USB Type C
Power	+12VDC (Adapter 12V/48W)
Operating Temp.	0°C to 40°C
Mounting	—
Ordering Information	6BPDN100AMR-A2 (Box packing) 6BPDN500AMR-A2 (Box packing)
Built-in Components	—

QBiX-Mini Series

New



QBiX-Mini Series

Model Name	QM-G700A QM-G510A	QM-7433REA-A1
Dimension	112W x 75D x 30.02H (mm)	120W x 80D x 52H (mm)
CPU	MediaTek Genio 700 (MT8390) 2 x Arm Cortex-A78, 2.2GHz 6 x Arm Cortex-A55, 2.0GHz MediaTek Genio 510 (MT8370) 2 x Arm Cortex-A78, 2.0GHz 6 x Arm Cortex-A55, 2.0GHz	Intel® Atom™ x7433RE Processor Intel 7, 4 cores, up to 3.40 GHz
Chipset	—	—
Memory	Onboard 8GB LPDDR4X	1 x DDR5 SO-DIMM socket, Max. Capacity 16 GB, Support Single Channel DDR5 4800 MHz
Ethernet	Realtek® RTL8211F-CG (10/100/1000 Mbps)	2 x GbE LAN Ports (Realtek® RTL8111H)
Graphic	Arm Mali-G57 MC3 GPU, Support OpenGL ES 1.1/2.0/3.2, and Vulkan 1.0/1.1 : 1 x HDMI 2.0	Integrated Graphics Processor - Intel® UHD Graphics 1 x HDMI 2.0
Audio	MT6365 (Integrated)	Realtek® Audio Codec
Storage	eMMC v5.1 64GB (on board)	—
Expansion Slots	1 x 2230 M.2 E-key slot (PCIe x1, USB2.0), supports WiFi6 : Azurewave AWXB468NF (IC:MT7921L) 1 x 3052 M.2 B-Key slot (USB3.0), supports 5G : QUECTEL RM500K-CN / RM520N-GL	1 x 2280 M.2 M-Key (PCIe Gen3x2) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
USB	2 x USB 3.0 ports on the back panel (USB3.0 HUB) 2 x USB 2.0/1.1 ports available through the internal USB headers 1 x OTG USB (USB type C Connector)	—
Front I/O	1 x Headphone Jack 2 x RJ45 LAN Ports 2 x USB 3.0 (host) 1 x USB Type C (OTG) 1 x USB 2.0 1 x HDMI 1 x DC IN (12~24V) 1 x Power button	2 x RJ45 LAN Ports 1 x USB 3.2 Gen 2x1 1 x USB 3.2 Gen 1 1 x HDMI 1 x DC IN 1 x Power button 1 x HDD LED 1 x External Antenna Hole (Optional)
Side I/O	1 x Micro SD Slot 6 x External Antenna Holes (Optional)	2 x USB 2.0 1 x COM Port (RS-232/422/485) 1 x GPIO (4 bits) 1 x External Antenna Hole (Optional)
TPM	—	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Power	12~24VDC (Adapter 19V/65W)	+12VDC (Adapter 12V/48W)
Operating Temp.	-20°C to 60°C	-20°C to 70°C
Mounting	—	Wall mount (Optional) / VESA mount (Optional)
Ordering Information	—	6BQM7433AMR-SI (Box packing)
Built-in Components	—	Please contact with your sales representative for more information or e-mailed to : sales@gigaipc.com

QBiX-Mini Series

Preliminary



New



Model Name	QM-N150A-A1	QM-N97A-A1
Dimension	120W x 80D x 52H (mm)	120W x 80D x 52H (mm)
CPU	Intel® Processor N150 Intel 7, 4 cores, up to 3.60 GHz	Intel Processor N97 Intel 7, 4 cores, up to 3.60 GHz
Chipset	—	—
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 GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Realtek® RTL8111H)
Graphic	Integrated Graphics Processor - Intel® Graphics 1 x HDMI 2.0	Integrated Graphics Processor - Intel® UHD Graphics 1 x HDMI 2.0
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	—	—
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen3x2) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	1 x 2280 M.2 M-Key (PCIe Gen3x2) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
USB	—	—
Front I/O	2 x RJ45 LAN Ports 1 x USB 3.2 Gen 2x1 1 x USB 3.2 Gen 1 1 x HDMI 1 x DC IN 1 x Power button 1 x HDD LED 1 x External Antenna Hole (Optional)	2 x RJ45 LAN Ports 1 x USB 3.2 Gen 2x1 1 x USB 3.2 Gen 1 1 x HDMI 1 x DC IN 1 x Power button 1 x HDD LED 1 x External Antenna Hole (Optional)
Side I/O	2 x USB 2.0 1 x COM Port (RS-232/422/485) 1 x GPIO (4 bits) 1 x External Antenna Hole (Optional)	2 x USB 2.0 1 x COM Port (RS-232/422/485) 1 x GPIO (4 bits) 1 x External Antenna Hole (Optional)
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Power	+12VDC (Adapter 12V/48W)	+12VDC (Adapter 12V/48W)
Operating Temp.	-20°C to 70°C	-20°C to 70°C
Mounting	Wall mount (Optional) / VESA mount (Optional)	Wall mount (Optional) / VESA mount (Optional)
Ordering Information	TBD	TBD
Built-in Components	—	—

QBiX-Lite Series

New



QBiX-Lite Series

Model Name	QL-1335A/ QL-1315A
Dimension	178W x 125D x 42.7H (mm)
CPU	Intel® Core™ i5-1335U Processor Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.6 GHz Intel® Core™ i3-1315U Processor Intel® 7, 6 cores, 2P+4E, 8 threads, up to 4.5 GHz
Chipset	SoC
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 96 GB Support Dual Channel DDR5 5600 MHz
Ethernet	2 x 2.5GbE LAN ports (Intel® I226V/LM)
Graphic	Integrated Graphics Processor - Intel® Iris X® Graphics eligible/Intel® UHD Graphics for 13th Gen Intel® Processors: 2 x HDMI 2.1 2 x DP 1.4 (8K) 1 x DP 1.4 (USB Type C (8K)) 4 independent display outputs
Audio	Realtek® Audio Codec
Storage	—
Expansion Slots	1 x 2280 M.2 M-Key (PCIe x4) 1 x 2230 M.2 E-Key 1 x 3052/3042 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 1 x HDD LED 1 x Power button with LED
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)
Side I/O	—
TPM	—
Power	+12V~24VDC (Adapter 19.5V/135W)
Operating Temp.	0°C to 50°C
Mounting	Wall mount (Default)
Ordering Information	6BQL1335AMR-SI (Box packing) 6BQL1315AMR-SI (Box packing)
Built-in Components	—

QBiX-Lite Series



Model Name	QBiX-Lite-RPLA1360PH-A1	QBiX-Lite-RPLA1340PH-A1
Dimension	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
Chipset	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
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V)	2 x 2.5GbE LAN Ports (Intel® I226V)
Graphic	Integrated Graphics Processor - Intel® Iris X® 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 X® 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
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 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)
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)
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) 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)
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)
Operating Temp.	0°C to 50°C	0°C to 50°C
Mounting	Wall mount (Default)	Wall mount (Default)
Ordering Information	6BQL1360AMR-SI (Box packing)	6BQL1340AMR-SI (Box packing)
Built-in Components	—	—

QBiX-Lite Series



QBiX-Lite Series

Model Name	QBiX-Lite-AMDA2314H-A1
Dimension	234W x 155D x 30H (mm)
CPU	AMD Ryzen™ R2314 Embedded Processor 14nm, 4 cores, 4 threads, 2.1 GHz, up to 3.5 GHz
Chipset	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2667 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111H-CG)
Graphic	Integrated Graphics Processor - AMD® Radeon™ Graphics: 4 x HDMI 2.0 4 independent display outputs EDID Emulation support with AMD utility
Audio	Realtek® Audio Codec
Storage	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)
Front I/O	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
Rear I/O	1 x COM Port (RS-232/422/485 & RI/5V/12V) 2 x USB 2.0 1 x Headphone Jack 2 x External Antenna Holes (Optional)
Side I/O	—
TPM	Onboard TPM 2.0 security chip INFINEON SLB9665TT2.0
Power	+9V~36VDC (Adapter 19V/65W)
Operating Temp.	0°C to 50°C
Mounting	Wall mount (Default)
Ordering Information	6BQL2314AMR-SI (Box packing)
Built-in Components	—

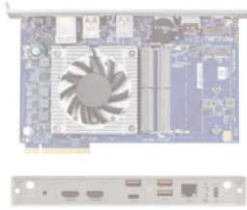
QBiX-Lite Series



Model Name	QBiX-Lite SDM Kits
Dimension	195W x 158D x 30H (mm)
Support model	Support SDM module as follows. SDM-1345EAL SDM-1335AL SDM-1315AL
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 1 x UART 1 x DC-Jack 1 x 2x2 Power connector
Side I/O	—
TPM	—
Power	+12V/19V/24VDC
Operating Temp.	0°C to 50°C
Mounting	Wall mount, VESA 75/100 (Optional)
Ordering Information	6BSD4000AMR-SI (Box packing)
Built-in Components	—

SDM-L Series

Preliminary



SDM-L Series

Model Name	SDM-Panther Lake H	SDM-1345EAL
Dimensions	SDM-Large, 175W x 100D (mm)	SDM-Large, 175W x 100D (mm)
CPU	Intel® Core™ Ultra processors (Series 3), Panther Lake H 404, vPro (Optional)	Intel® Core™ i5-1345UE Processor Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.60 GHz
VPro	vPro (Optional)	Intel® vPro™ Platform Eligibility
Memory	2 x DDR5 SO-DIMM/CSO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 6400MHz	2 x DDR5 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR5 5200 MHz
Ethernet	1 x 2.5GbE LAN Port (Intel® I226LM)	1 x 2.5GbE LAN Port (Intel® I225LM)
Graphic	Integrated Graphics Processor - Intel® Arc Xe3: 1 x HDMI 2.1 (SDM) (CEC), 1 x Display Port 2.1 (SDM), 2 x HDMI 2.1 (Rear side) (CEC) 4 independent display output	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
Audio	Intel® Integrated Audio	Intel® Integrated Audio
Storage	—	—
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen 4x4) (PCIe Gen 5 design reday) 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)
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 USB4 (with DP Alt. mode) 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
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	0°C to 55°C	0°C to 55°C
Ordering Information	TBD	9MRLUCALMR-SI (Box packing)
Built-in Components	—	—

SDM-L Series



Model Name	SDM-1335AL	SDM-1315AL
Dimensions	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
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
Ethernet	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
Audio	Intel® Integrated Audio	Intel® Integrated Audio
Storage	—	—
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)
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
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	0°C to 55°C	0°C to 55°C
Ordering Information	9MRLU5ALMR-SI (Box packing)	9MRLU3ALMR-SI (Box packing)
Built-in Components	—	—

SDM Docking Board Series



SDM Docking Board Series/ OPS Series

Model Name	CIBPU	CIBPX
Dimensions	190W x 62D (mm)	190W x 54.7D (mm)
Support model	Support SDM module as follows. SDM-1345EAL SDM-1335AL SDM-1315AL SDM-1165G7L SDM-1135G7L SDM-1115G4L	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 55°C	0°C to 55°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	—

ATX Series



ATX Series

Model Name	ATX-Q670B
CPU	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors
Socket	LGA 1700
Chipset	Intel® Q670 Chipset
Memory	4 x DDR5 DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR5 4800MHz
Ethernet	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
Audio	Realtek® Audio Codec
Storage	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
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	9MQ670BXMR-SI (Box packing)

ATX Series



Model Name	ATX-Q670A
CPU	Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors
Socket	LGA 1700
Chipset	Intel® Q670 Chipset
Memory	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)
Graphic	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
Storage	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) 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
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	9MQ670AXMR-SI (Box packing)

Micro-ATX Series

New



Micro-ATX Series

Model Name	uATX-Q870A
CPU	Support Intel® Core™ Ultra processors (Series 2)
Socket	LGA 1851
Chipset	Intel® Q870 Chipset
Memory	4 x DDR5 DIMM sockets, Max. Capacity 192 GB, Support for UDIMM: Dual Channel DDR5 5600 MHz (Non-ECC, Un-buffered) Support for CUDIMM: Dual Channel DDR5 6400 MHz (Clockd Un-buffered)
Ethernet	1 x 2.5GbE LAN Port (Intel® I226LM) 3 x 2.5GbE LAN Ports (Intel® I226V)
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
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) 1 x PCIe x4 (Gen4 x4) 1 x PCIe x1 (Gen4 x1) 1 x 2280/2242 M.2 M-Key (PCIe Gen 4x4, NVME) 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 2 x System fan headers 1 x Front panel header 1 x Front panel audio header 1 x Speaker out header 1 x VGA header 4 x USB 2.0 headers 2 x COM headers (RS-232/422/485 & 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 AT/ATX mode select jumper
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
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	0°C to 60°C
Ordering Information	9MQ870AMMR-SI (Box packing)

Micro-ATX Series



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)

Micro-ATX Series



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)

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)

Micro-ATX Series

Preliminary



Micro-ATX Series/ Mini-ITX Series

Model Name	uATX-B650A
CPU	Support for AMD Ryzen™ Embedded 4000/7000/9000 Processors
Socket	AM5
Chipset	AMD® B650
Memory	4 x DDR5 DIMM sockets, Max. Capacity per DIMM 32GB, total 128GB , Dual Channel DDR5 4800MHz (Side-band ECC need check support or not)
Ethernet	1x 2.5G LAN (Realtek RTL2185B) 1x 1G LAN (Realtek RTL8111EPV)
Graphic	Integrated Graphics Processor with AMD Radeon™ Graphics support: 2 x HDMI 2.1 1 x DP2.0 3 independent display outputs
Audio	Realtek® Audio Codec
Storage	4 x SATA 6Gb/s Ports (RAID 0/1/10)
Expansion Slots	1 x PCIe x16 (Gen4 x4 from PCH) 1 x PCIe x16 (Gen5 x16 from CPU) 1 x PCIe x1 1 x M.2 2280/2242 (Gen5 x4 from CPU) 1 x M.2 2280/2242 (Gen4 x4 from PCH) 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 2 x System fan headers 1 x Front panel header 1 x Front panel audio header 2 x USB 3.0 headers 4 x COM headers (RS-232) 1 x Clear CMOS jumper 1 x Buzzer
Rear I/O	3 x Audio Jacks (Line in, Line out, Mic in) 2 x UBS 3.0 1 x USB Type C 2 x HDMI 1 x Display port 2 x RJ45 LAN Ports 1 x USB 3.2 Ports
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	0°C to 60°C
Ordering Information	TBD

Mini-ITX Series



Model Name	mITX-Q870A	mITX-H810A	mITX-H810E
CPU	Support Intel® Core™ Ultra processors (Series 2)	Support Intel® Core™ Ultra processors (Series 2)	Support Intel® Core™ Ultra processors (Series 2)
Socket	LGA 1851	LGA 1851	LGA 1851
Chipset	Intel® Q870 Chipset	Intel® H810 Chipset	Intel® H810 Chipset
Memory	2 x DDR5 SO-DIMM/CSO-DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR5 5600/6400 MHz	2 x DDR5 SO-DIMM/CSO-DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR5 5600/6400 MHz	2 x DDR5 SO-DIMM/CSO-DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR5 5600/6400 MHz
Ethernet	1 x 2.5GbE LAN Port (Intel® I226V) 1 x 2.5GbE LAN Port (Intel® I226LM)	1 x 2.5GbE LAN Port (Intel® I226V) 1 x 2.5GbE LAN Port (Intel® 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 USB Type C (Alt mode) 1 x LVDS 4 independent display outputs	Integrated Graphics Processor - depends on CPU: 1 x HDMI 2.1 1 x Display Port 1 x USB Type C (Alt mode) 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 Gen4x4, 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 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 Backlight Control header 1 x Clear CMOS jumper 1 x Buzzer 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 USB Type C (Alt mode) 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 USB Type C (Alt mode) 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 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	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



Mini-ITX Series

Model Name	mITX-Q670B	mITX-H610B
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® Q670 Chipset	Intel® H610 Chipset
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 96 GB, Support Dual Channel DDR5 5600 MHz	2 x DDR5 SO-DIMM sockets, Max. Capacity 96 GB, Support Dual Channel DDR5 5600 MHz
Ethernet	1 x GbE LAN Port (Intel® I219LM) 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
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	2 x SATA 6Gb/s Ports (RAID 0/1)	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)
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
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)
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	9MQ670BIMR-SI (Box packing)	9MH610BIMR-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)

Mini-ITX Series



Mini-ITX Series

Model Name	mITX-H61ED	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	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® H610E Chipset	Intel® H610E Chipset	Intel® H610 Chipset
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 96 GB, Support Dual Channel DDR5 5600 MHz	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)	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 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	Realtek® Audio Codec
Storage	2 x SATA 6Gb/s Ports	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 (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 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 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	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	9MH61EDIMR-SI (Box packing)	9MH61ECIMR-SI (Box packing)	9MH610EIMR-SI (Box packing)

Mini-ITX Series



Model Name	mITX-6412A	mITX-2748A
CPU	Intel® Celeron® J6412 Processor, 10nm, 4 cores, 4 threads, up to 2.6 GHz, fan-less design	AMD Ryzen™ V2748 Embedded Processor, 7nm, 8 cores, 16 threads, 2.9 GHz, up to 4.25GHz
Socket	FCBGA1493	FP6 BGA
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 64 GB, Support Dual channel DDR4 3200 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Realtek® RTL8118-CG)
Graphic	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 - AMD Radeon™ Graphics: 4 x Display Ports, 1 x LVDS port (switch from DP) 4 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	5 x SATA 6Gb/s Ports (4 x Asmedia ASM1064) (1 x supports SATA DOM)	1 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 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 Full-size Mini PCIe with SIM slot
Internal I/O	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 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
Rear I/O	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)	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)
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	9MEHLJAIMR (Box packing)	Fan version: 9MRZV2MIMR-SI (Box packing)

Thin Mini-ITX Series



Thin Mini-ITX Series

Model Name	iTXL-H810A	iTXL-H610C	iTXL-H610A
CPU	Support Intel® Core™ Ultra processors (Series 2)	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 1851	LGA 1700	LGA 1700
Chipset	Intel® H810 Chipset	Intel® H610 Chipset	Intel® H610 Chipset
Memory	2 x DDR5 SO-DIMM/CSO-DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR5 5600/6400 MHz	2 x DDR5 SO-DIMM sockets, Max. Capacity 96 GB, Support Dual Channel DDR5 5600 MHz	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Realtek® RTL8111H)	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	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	Realtek® Audio codec
Storage	2 x SATA 6Gb/s Ports	2 x SATA 6Gb/s Ports	2 x SATA 6Gb/s Ports
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 2280 M.2 M-Key (PCIe x4) 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 (5V only) 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	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 2 x USB 3.2 Gen 2x1 2 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 2 x USB 3.2 Gen 2x1 2 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 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	Onboard TPM 2.0 security chip 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	9MH810ATMR-SI (Box packing)	9MH610CTMR-SI (Box packing)	9MH610ATMR-SI (Box packing)

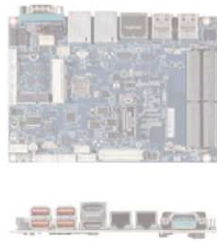
Thin Mini-ITX Series



Model Name	iTXL-N150B	iTXL-N97A	iTXL-6412A/ iTXL-6210A
CPU	Intel® Processor N150 Intel 7, 4 cores, up to 3.60 GHz	Intel® Processor N97 Intel® 7, 4 cores, 6M Cache, up to 3.60 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	FCBGA1264	FCBGA1264	FCBGA1493
Chipset	—	—	—
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	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Realtek® RTL8118-CG)
Graphic	Integrated Graphics Processor - Intel® Graphics: 2 x HDMI 2.0 1 x LVDS 1 x eDP 3 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics: 2 x HDMI 2.0 1 x LVDS 1 x eDP 3 independent display outputs	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
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 Gen3x1, SATA 6Gb/s) 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)	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)
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 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	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	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
Rear I/O	2 x Audio Jacks (Headphone out, Mic in) 2 x HDMI 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 HDMI 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 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)
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	0°C to 60°C
Ordering Information	9MTWN1ATMR-SI (Box packing)	9MADN9ATMR-SI (Box packing)	9MEHLJATMR-SI (Box packing) 9MEHLNATMR-SI (Box packing)

QBiP Series (3.5" SBC)

Preliminary



Preliminary



QBiP Series (3.5" SBC)

Model Name	QBiP-Panther Lake A series	QBiP-Panther Lake B series
CPU	Intel® Core™ Ultra processors (Series 3), Panther Lake H 12Xe, H484, H404	Intel® Core™ Ultra processors (Series 3), Panther Lake H 12Xe, H484, H404
Socket	FCBGA2540	FCBGA2540
Chipset	SoC	SoC
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR5 6400/7200 MHz	2 x DDR5 SO-DIMM/CSO-DIMM sockets, Max. Capacity 128 GB, Support Dual Channel DDR5 6400/7200 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V)	2 x 2.5GbE LAN Ports (Intel® I226V/I226LM)
Graphic	Integrated Graphics Processor - Intel® Arc Xe3: 2 x HDMI 2.1b 2 x DP2.1 1 x eDP1.5 3 independent display outputs	Integrated Graphics Processor - Intel® Arc Xe3: 2 x HDMI 2.0 (CEC) 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	Realtek® Audio Codec
Storage	—	—
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 3052/3042 M.2 B-Key with SIM Slot (Support 5G only) 1 x PCIe Gen 4x4 (Board to Wire connector)	1 x 2280 M.2 M-Key (PCIe Gen 4x4) (PCIe Gen 5x4 design ready) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0) 1 x PCIe x4 connector (2* PCIe x2 (2280) , 2.5" SSD Card size) 1 x Full-size Mini PCIe with SIM slot
Internal I/O	1 x 4-pin box power connector (+12V~36VDC) 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 1 x COM headers (RS-232 & 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 (+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 headers
Rear I/O	1 x USB type C (USB4 + DP output-share with DP) & PD v3.0 Out -100W 1 x USB type C (USB 4, PD 3.1 input-100W) 4 x USB 3.2 Gen 2x1 2 x HDMI 2 x DP 2 x RJ45 LAN Ports	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 INFINEON SLB9670VQ2.0	Onboard TPM 2.0 INFINEON SLB9670VQ2.0
Operating Temp.	0°C to 60°C	-20°C to 70°C
Ordering Information	9MPH7ASMR-SI (Box packing) 9MPH5ASMR-SI (Box packing)	9MPH7BSMR-SI (Box packing) 9MPH5BSMR-SI (Box packing)

QBiP Series (3.5" SBC)

New



Model Name	QBiP-235UB	QBiP-255UB/ QBiP-225UB	QBiP-155UB/ QBiP-125UB
CPU	Intel® Core™ Ultra 5 Processor 235U Intel® 3, 12 cores, 2P+8E+2LPE, 14 threads, up to 4.9 GHz Vpro support	Intel® Core™ Ultra 7 Processor 255U Intel® 3, 12 cores, 2P+8E+2LPE, 14 threads, up to 5.20 GHz Intel® Core™ Ultra 5 Processor 225U Intel® 3, 12 cores, 2P+8E+2LPE, 14 threads, up to 4.8 GHz	Intel® Core™ Ultra 7 Processor 155U Intel® 4, 12 cores, 2P+8E+2LPE, 14 threads, up to 4.8 GHz Intel® Core™ Ultra 5 Processor 125U Intel® 4, 12 cores, 2P+8E+2LPE, 14 threads, up to 4.3 GHz
Socket	FCBGA2049	FCBGA2049	FCBGA2049
Chipset	SoC	SoC	SoC
Memory	2 x DDR5 SO-DIMM sockets, Max. Capacity 96 GB Support Dual Channel DDR5 5600 MHz memory modules or 2 x DDR5 CSO-DIMM sockets, Max. Capacity 128 GB Support Dual Channel DDR5 6400 MHz memory modules	2 x DDR5 SO-DIMM sockets, Max. Capacity 96 GB Support Dual Channel DDR5 5600 MHz memory modules or 2 x DDR5 CSO-DIMM sockets, Max. Capacity 128 GB Support Dual Channel DDR5 6400 MHz memory modules	2 x DDR5 SO-DIMM sockets, Max. Capacity 96 GB, Support Dual Channel DDR5 5600 MHz
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V and Intel® I226LM)	2 x 2.5GbE LAN Ports (Intel® I226V and Intel® I226LM)	2 x 2.5GbE LAN Ports (Intel® I226V and Intel® I226LM)
Graphic	Integrated Graphics Processor - Intel® Graphics: 2 x HDMI 2.1 (HDMI 2 port support CEC) 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® Graphics: 2 x HDMI 2.1 (HDMI 2 port support CEC) 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® Graphics: 2 x HDMI 2.1 (HDMI 2 port support CEC) 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 (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 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 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
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 CANBus 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 1 x CANBus 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 1 x CANBus 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 SLB9672XU2.0	Onboard TPM 2.0 security chip INFINEON SLB9672XU2.0	Onboard TPM 2.0 security chip INFINEON SLB9672XU2.0
Operating Temp.	0°C to 60°C	0°C to 60°C	0°C to 60°C
Ordering Information	9MARU5CSMR-SI (Box packing)	9MARU7BSMR-SI (Box packing) 9MARU5BSMR-SI (Box packing)	9MMTU7BSMR-SI (Box packing) 9MMTU5BSMR-SI (Box packing)

QBiP Series (3.5" SBC)



QBiP Series (3.5" SBC)

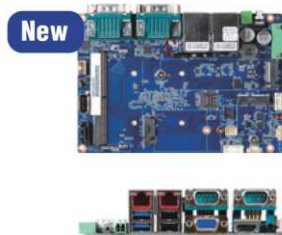
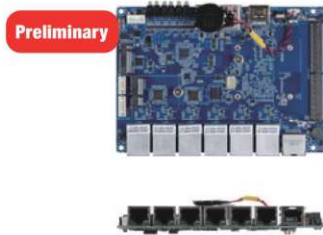
Model Name	QBiP-1360A/ QBiP-1340A	QBiP-1365EB/ QBiP-1335EB
CPU	Intel® Core™ i7-1360P Processor Intel® 7, 12 cores, 16 threads, up to 5.0 GHz Intel® Core™ i5-1340P Processor Intel® 7, 12 cores, 16 threads, up to 4.6 GHz	Intel® Core™ i7-1365UE Processor (vPro support) Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.9 GHz Intel® Core™ i5-1335UE Processor (vPro support) Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.6 GHz
Socket	FCBGA1744	FCBGA1744
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	2 x 2.5GbE LAN Ports (Intel® I226V)	2 x 2.5GbE LAN Ports (Intel® I226V and Intel® I226LM)
Graphic	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	Integrated Graphics Processor - Intel® Iris® Xe Graphics eligible: 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 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)	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
Internal I/O	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	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 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	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	9MRLP7ASMR-SI (Box packing) 9MRLP5ASMR-SI (Box packing)	9MRLU7CSMR-SI (Box packing) 9MRLU5CSMR-SI (Box packing)

QBiP Series (3.5" SBC)



Model Name	QBiP-1355B/ QBiP-1335B/ QBiP-1315EB
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
Socket	FCBGA1744
Chipset	SoC
Memory	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)
Graphic	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
Storage	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
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
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
TPM	Onboard TPM 2.0 security chip INFINEON SLB9672VU2.0
Operating Temp.	0°C to 60°C
Ordering Information	9MRLU7BSMR-SI (Box packing) 9MRLU5BSMR-SI (Box packing) 9MRLU3BSMR-SI (Box packing)

QBiP Series (3.5" SBC)

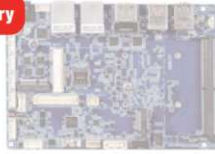


QBiP Series (3.5" SBC)

Model Name	QBiP-x7433REC	QBiP-x7433REB	QBiP-x7433REA
CPU	Intel® Atom® x7433RE Processor Intel® 7, 4 cores, up to 3.40 GHz	Intel® Atom® x7433RE Processor Intel® 7, 4 cores, up to 3.40 GHz	Intel® Atom® x7433RE Processor Intel® 7, 4 cores, up to 3.40 GHz
Socket	FCBGA1264	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	1 x DDR5 SO-DIMM sockets, Max. Capacity 16 GB, Support Single Channel DDR5 4800 MHz
Ethernet	6 x 2.5GbE LAN Ports (RTL8125)	2 x 2.5GbE LAN ports (Intel® I226IT)	2 x 2.5GbE LAN ports (Intel® I225V)
Graphic	Integrated Graphics Processor - Intel® UHD Graphics: 1 x HDMI 2.0	Integrated Graphics Processor - Intel UHD Graphics: 1 x HDMI 2.0, 1 x VGA 2 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 Gen3x2) 1 x 2230 M.2 E-Key	1 x 2280 M.2 M-Key (PCIe Gen 3x1, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB2.0) 1 x 3052/3042 M.2 B-key with SIM Slot 1 x Vertical USB 2.0	1 x 2280 M.2 M-Key (PCIe Gen 3x2) 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 (DC in +12V~36VDC) 1 x CPU fan header 1 x GPIO (8 bits) & SMBus header 1 x COM header (RS-232) 1 x AT/ATX mode select (default AT mode) 1 x Buzzer	1 x CPU fan header 1 x SATA Power header 1 x Front panel header 1 x COM header (RS-232/422/485 & RI/5V/12V) 1 x CANBus header 1 x AT/ATX mode select jumper 1 x GPIO (8 bits) 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
Front I/O	6 x RJ45 LAN Ports 1 x Console RJ45(RS-232) Port	—	—
Rear I/O	1 x HDMI 2 x USB 3.2 Gen 2 2 x USB 2.0 1 x Power Button & HDD LED 6 x LAN status LED	2 x RJ45 LAN Ports 2 x USB 3.2 Gen 1, 2 x USB 2.0 1 x HDMI 1 x VGA 1 x Remote control header 2 x COM Ports (RS-232/422/485 & RI/5V/12V) 1 x Power button with LED 1 x Combo audio jack (Headphone & Headset) 1 x 3-pin Terminal Block (+9V~36VDC)	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 Nuvoton NPCT764AABYX	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	0°C to 60°C	-20°C to 70°C	-20°C to 70°C
Ordering Information	9MASLECSMR-SI (Box Packing)	9MASLEBSMR-SI (Box Packing)	9MASLEASMR-SI (Box packing)

QBiP Series (3.5" SBC)

Preliminary



Preliminary

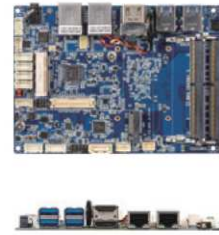


New



Model Name	QBiP-WCLA	QBiP-N150C	QBiP-N150A
CPU	Intel® Wildcat lake Core 7/5/3 TDP 15W	Intel® Processor N150 Intel® 7, 4 cores, up to 3.60 GHz	Intel® Processor N150 Intel® 7, 4 cores, up to 3.60 GHz
Socket	FCBGA1516	FCBGA1264	FCBGA1264
Chipset	—	—	—
Memory	1 x DDR5 SO-DIMM sockets, Max. Capacity 32 GB, Support Single Channel DDR5 6400 MHz	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® I226V/LM)	6 x 2.5GbE LAN Ports (RTL8125)	2 x 2.5GbE LAN ports (Intel® I226V)
Graphic	Integrated Graphics Processor - Intel® Arc Xe3: 2 x HDMI 2.0b 1 x LVDS 3 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics: 1 x HDMI 2.0	Integrated Graphics Processor - Intel® Graphics: 2 x HDMI 2.0 1 x LVDS 3 independent display outputs
Audio	Realtek® Audio Codec	—	Realtek® Audio Codec
Storage	UFS 3.1	—	1 x SATA 6Gb/s Port
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen3x2) 1 x 2230 M.2 E-Key 1 x Full-size mini PCIe with SIM slot (CLK_REQ_by R Jumer)	1 x 2280 M.2 M-Key (PCIe Gen3x2) 1 x 2230 M.2 E-Key	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) 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 Buzzer header	1 x 4-pin box power connector (DC in +12V~36VDC) 1 x CPU fan header 1 x GPIO (8 bits) & SMBus header 1 x COM header (RS-232) 1 x AT/ATX mode select (default AT mode) 1 x Buzzer	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
Front I/O	—	6 x RJ45 LAN Ports 1 x Console RJ45(RS-232) Port	—
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 HDMI 2 x USB 3.2 Gen 2 2 x USB 2.0 1 x Power Button & HDD LED 6 x LAN status LED	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	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	-20°C to 70°C	0°C to 60°C	0°C to 60°C
Ordering Information	TBD	TBD	9MTWN1ASMR-SI (Box packing)

QBiP Series (3.5" SBC)



QBiP Series (3.5" SBC)

Model Name	QBiP-N97A	QBiP-x6413EA	QBiP-6412A/ QBiP-6210A
CPU	Intel® Processor N97 Intel® 7, 4 cores, up to 3.60 GHz	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	FCBGA1264	FCBGA1493	FCBGA1493
Chipset	—	—	—
Memory	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	2 x DDR4 SO-DIMM sockets, Max. Capacity 32 GB, Support Dual Channel DDR4 3200 MHz
Ethernet	2 x 2.5GbE LAN ports (Intel® I225V)	2 x GbE LAN Ports (Intel® I210AT)	2 x GbE LAN Ports (Intel® I210AT)
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 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	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) 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)	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 (+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	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 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	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	9MADN9ASMR-SI (Box packing)	9MEHLEASMR-SI (Box packing)	9MEHLJASMR-SI (Box packing) (QBiP-6412A) 9MEHLNASMR-SI (Box packing) (QBiP-6210A)

QBiP Series (3.5" SBC)



Model Name	QBiP-2314A
CPU	AMD® Ryzen™ R2314 Embedded Processor 14nm, 4 cores, 4 threads, 2.1 GHz, up to 3.5 GHz
Socket	FP5
Chipset	SoC
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 2667 MHz
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111H-CG)
Graphic	Integrated Graphics Processor - AMD® Radeon™ Graphics: 4 x HDMI 2.0 1 x eDP (share from HDMI) 4 independent display outputs
Audio	Realtek® Audio Codec
Storage	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)
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
Rear I/O	4 x HDMI 2 x RJ45 LAN Ports 2 x USB 3.2 Gen 2x1
TPM	Onboard TPM 2.0 security chip INFINEON SLB9665TT2.0
Operating Temp.	0°C to 60°C
Ordering Information	9MRZR2MSMR-SI (Box packing)

QBiP Wide Temperature Series



Model Name	QBiP-1365EBT/ QBiP-1335EBT	QBiP-x7433REAT	QBiP-x6413EAT
CPU	Intel® Core™ i7-1365UE Processor Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.9 GHz (vPro support) Intel® Core™ i5-1335UE Processor Intel® 7, 10 cores, 2P+8E, 12 threads, up to 4.5 GHz (vPro support)	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	FCBGA1744	FCBGA1264	FCBGA1493
Chipset	SoC	—	—
Memory	2 x DDR4 SO-DIMM sockets, Max. Capacity 64 GB, Support Dual Channel DDR4 3200 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 2.5GbE LAN Ports (Intel® I226V and Intel® I226LM)	2 x 2.5GbE LAN ports (Intel® I225V)	2 x GbE LAN Ports (Intel® I210AT)
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 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	1 x SATA 6Gb/s Port (RAID 0/1)	1 x SATA 6Gb/s Port	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 Full-size Mini PCIe with SIM slot	1 x 2280 M.2 M-Key (PCIe Gen3x2) 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) 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 (+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) 2 x HDMI 2 x RJ45 LAN Ports 4 x USB 3.2 Gen 2x1	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	Onboard TPM 2.0 security chip INFINEON SLB9672VU2.0	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	9MRLU7CSMT-SI1 (Box Packing) 9MRLU5CSMT-SI1 (Box Packing)	9MASLEASMR-SI1 (Box packing)	9MEHLEASMR-SI1 (Box packing)

QBi Series (10 x 10 Embedded Compact Board)

Preliminary



Model Name	QBi-PTLA	QBi-1355A/ QBi-1335A/ QBi-1315EA
CPU	Intel® Core™ Ultra processors (Series 3), Panther Lake H 12Xe, H484, H404	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)
Socket	FCBGA2540	FCBGA1774
Chipset	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
Ethernet	1 x 2.5 GbE LAN port (Intel® I226V) 1 x GbE LAN port (Realtek® RTL8111H)	1 x 2.5 GbE LAN port (Intel® I226V) 1 x GbE LAN port (Realtek® RTL8111H)
Graphic	Integrated Graphics Processor - Intel® Arc Xe3: 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 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
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 4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)	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)
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 USB 2.0 header 1 x SATA Power 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 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)
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 (+12V~24VDC)
Side IO	—	—
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	TBD	9MRLU7AHMR-SI (Box packing)(QBi-1355A) 9MRLU5AHMR-SI (Box packing)(QBi-1335A) 9MRLU3AHMR-SI (Box packing)(QBi-1315EA)

QBi Series (10 x 10 Embedded Compact Board)

Preliminary



New



QBi Series (10 x 10 Embedded Compact Board)

Model Name	QBi-WCLA	QBi-N150A
CPU	Intel® Wildcat lake Core 7/5/3 TDP 15W	Intel® Processor N150 Intel 7, 4 cores, up to 3.60 GHz
Socket	FCBGA1516	FCBGA1264
Chipset	SoC	SoC
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 GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Realtek® RTL8111H)
Graphic	Integrated Graphics Processor - Intel® Arc Xe3: 2 x HDMI 2.0 port 1 x DP 1.4 through USB Type C (DP Alt. mode) 3 independent display outputs	Integrated Graphics Processor - Intel® Graphics support: 2 x HDMI 2.0 port 1 x DP 1.4 through USB Type C (DP Alt. mode) 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 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) 1 x USB 3.2 Type C with DP 1.4b (DP Alt. mode)	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 USB 3.2 Type C with DP 1.4b (DP Alt. mode)
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)
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	TBD	9MTWN1AHMR-SI (Box Packing)

QBi Series (10 x 10 Embedded Compact Board)



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)

QBi Series (10 x 10 Embedded Compact Board)



QBi Series (10 x 10 Embedded Compact Board)/ Pico-ITX Series

Model Name	QBi-6412A/ QBi-6210A	QBi-6412B
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
Socket	FCBGA1493	FCBGA1493
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 32 GB, Support Single Channel DDR4 3200 MHz
Ethernet	2 x GbE LAN Ports (Intel® I210AT)	2 x GbE LAN Ports (Realtek® RTL8111H)
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 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)
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
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
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)
Side IO	—	—
TPM	—	Onboard TPM 2.0 security chip Infineon SLB9670VQ2.0
Operating Temp.	0°C to 60°C	0°C to 60°C
Ordering Information	9MEHLJAHMR-SI (Box packing) 9MEHLNAHMR-SI (Box packing)	9MEHLJBHMR-SI (Box packing)

Pico-ITX Series



Model Name	PICO-G700A PICO-G510A	PICO-x7433REA
CPU	MediaTek Genio 700 (MT8390) 2 x Arm Cortex-A78, 2.2GHz 6 x Arm Cortex-A55, 2.0GHz	Intel® Atom™ x7433RE Processor Intel® 7, 4 cores, up to 3.40 GHz
AI Inference Computing Power	MediaTek Genio 510 (MT8370) 2 x Arm Cortex-A78, 2.0GHz 6 x Arm Cortex-A55, 2.0GHz	—
Socket	—	FCBGA1264
Memory	Onboard 8GB LPDDR4X	1 x DDR5 SO-DIMM socket, Max. Capacity 16 GB Support Single Channel DDR5 4800 MHz
Ethernet	Realtek® RTL8211F-CG (10/100/1000 Mbps)	2 x GbE LAN Ports (Realtek® RTL8111H)
Graphic	Arm Mali-G57 MC3 GPU, Support OpenGL ES 1.1/2.0/3.2, and Vulkan 1.0/1.1 : 1 x HDMI 2.0 1 x MIPI-DSI 1 x eDP (2 x Lan) 2 independent display outputs	Integrated Graphics Processor - Intel® UHD Graphics support: 1 x HDMI 2.0 1 x LVDS 2 independent display outputs
Audio	MT6365 (Integrated)	—
Storage	eMMC v5.1 64GB (on board)	—
Expansion Slots	1 x 2230 M.2 E-key slot (PCIe x1, USB2.0), supports WiFi6 : Azurwave AWXB468NF (IC:MT7921L) 1 x 3052 M.2 B-Key slot (USB3.0), supports 5G : QUECTEL RM500K-CN / RM520N-GL	1 x 2280 M.2 M-Key (PCIe Gen3x2) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
USB	2 x USB 3.0 ports on the back panel (USB3.0 HUB) 2 x USB 2.0/1.1 ports available through the internal USB headers 1 x OTG USB (USB type C Connector)	—
Internal I/O	1 x Front panel header 1 x Speaker header (2W/4ohm) 2 x UART 1 x GPIO (8 bits) header 1 x MIPI-DSI 2 x USB 2.0 headers 1 x eDP power header 1 x Nano SIM card slot 1 x Micro SD card slot	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
Rear I/O	1 x DC In power jack - System adapter 12~24V 2 x USB 3.0 Ports (Host) 1 x USB Type C (OTG) 1 x RJ45 LAN Port 1 x HDMI 1 x Combo audio jack (Headphone & Headset)	1 x USB 3.2 Gen 1 1 x USB 3.2 Gen 2x1 2 x RJ45 LAN Ports 1 x HDMI
TPM	—	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	-20°C to 60°C	-20°C to 70°C
Ordering Information	9MG700UJMR-SI (Box packing)(PICO-G700A) 9MG510UJMR-SI (Box packing)(PICO-G510A)	9MASLEAJMR-SI (Box packing)

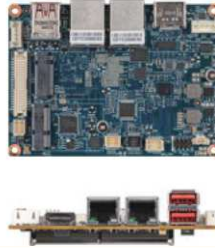
Pico-ITX Series



Pico-ITX Series/ Pico-ITX Wide Temperature Series

Model Name	PICO-N150A	PICO-N97A	PICO-G350A PICO-G350B
CPU	Intel® Processor N150 Intel® 7, 4 cores, up to 3.6 GHz	Intel® Processor N97 Intel® 7, 4 cores, up to 3.60 GHz	MT8365 Arm® Quad-Core Cortex®-A53 up to 2.0GHz
Socket	FCBGA1264	FCBGA1264	—
Package	—	—	—
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	LPDDR4X 4GB (on board)
Ethernet	2 x GbE LAN Ports (Realtek® RTL8111H)	2 x GbE LAN Ports (Realtek® RTL8111H)	Integrated 100M Ethernet
Graphic	Integrated Graphics Processor - Intel® 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	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 2280 M.2 M-Key (PCIe Gen 3x2) 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)	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 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	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	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	2 x USB 3.2 Gen 2x1 2 x RJ45 LAN Ports 1 x HDMI	2 x USB 3.2 Gen 2x1 2 x RJ45 LAN Ports 1 x HDMI	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	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	9MTWN1AJMR-SI (Box packing)	9MADN9AJMR-SI (Box packing)	9MI350AJMR-SI (Box packing), including 8G eMMC, support Yocto OS (PICO-G350A) 9MI350BJMR-SI (Box packing), including 32G eMMC, support Android OS (PICO-G350B)

Pico-ITX Wide Temperature Series



Model Name	PICO-x7433REAT
CPU	Intel® Atom™ x7433RE Processor Intel® 7, 4 cores, up to 3.40 GHz
Socket	FCBGA1264
Package	—
Memory	1 x DDR5 SO-DIMM socket, Max. Capacity 16 GB Support Single Channel DDR5 4800 MHz
Ethernet	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
Audio	—
Storage	—
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen3x2) 1 x 2230 M.2 E-Key (PCIe x1, USB 2.0)
Internal I/O	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
Rear I/O	1 x USB 3.2 Gen 1 1 x USB 3.2 Gen 2x1 2 x RJ45 LAN Ports 1 x HDMI
TPM	Onboard TPM 2.0 security chip INFINEON SLB9670VQ2.0
Operating Temp.	-40°C to 85°C
Ordering Information	9MASLEAJMT-SI1 (Box packing)

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An aerial, high-angle photograph of a large stadium at night. The stadium is filled with spectators, and the seating areas are illuminated with a mix of blue and orange lights, creating a vibrant, glowing effect. The perspective is from above, looking down at the curved tiers of the stadium.