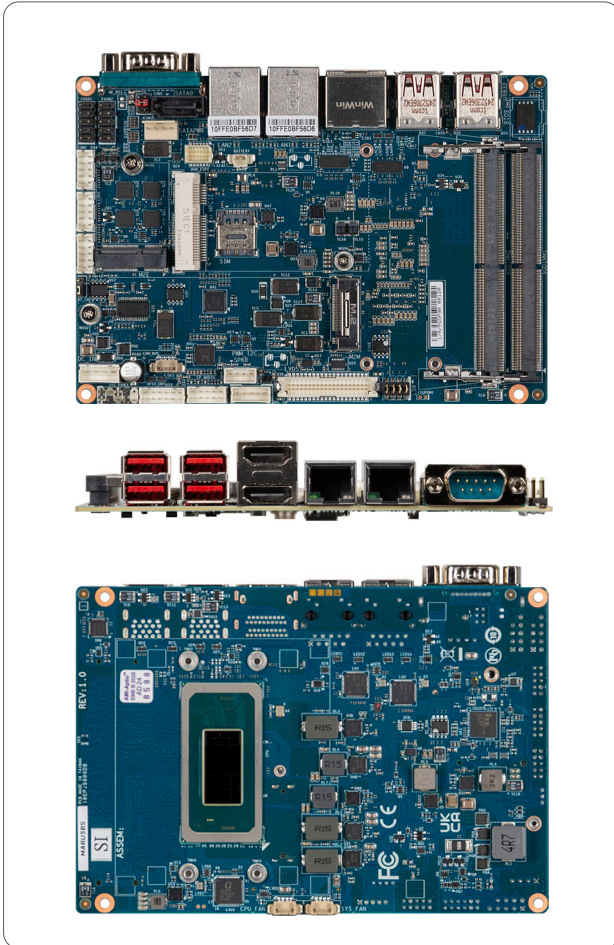


QBIP-255UB (MARU7BS)

3.5" SubCompact Board with Intel® Core™ Ultra 7 Processor 255U, Dual Channel DDR5 memory, 4 x COM, 1 x SATA 6Gb/s, 4 x USB 3.2 Gen 2x1, 4 x USB 2.0



Features

- 3.5" SBC
- Intel® Core™ Ultra 7 Processor 255U
- Dual Channel DDR5, 2 x SO-DIMMs/CSO-DIMMs
- 2 x 2.5GbE LAN Ports
- 1 x SATA 6Gb/s Port
- Ultra-Fast M.2 with PCIe Gen4 x4 interface
- 2 x HDMI, LVDS ports for multiple display
- 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 2x1
- 1 x CANBus header

Audio	Realtek® ALC269
Storage	1 x SATA 6Gb/s Port
Raid	Intel® SATA RAID 0/1
Expansion Slots	1 x 2280 M.2 M-Key (PCIe Gen4x4, SATA 6Gb/s) 1 x 2230 M.2 E-Key 1 x Full-size Mini PCIe with SIM slot
Internal I/O	1 x 4-pin box power connector (DC in +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
TPM	Onboard TPM 2.0 security chip INFINEON SLB9672XU2.0
OS Compatibility	Windows® 10/11 (x64)
Operating Properties	Operating temperature: 0°C to 60°C Operating humidity: 60°C @ 20-95% (non-condensing) Non-operating temperature: -40°C to 85°C Non-operating humidity: 85°C @ 95% (non-condensing)
Packing Content	Carton size: 465 x 351 x 217 (mm) Packing Capacity: 10pcs Single Box size: 221 x 178 x 65 (mm)
Order Information	Including: SATA power Cable x 1 (P/N: 25CRI-200B02-K1R) Thermal pad for Memory x 1 (P/N: 25ST3-290300-S7R) 9MARU7BSMR-SI (Box Packing)

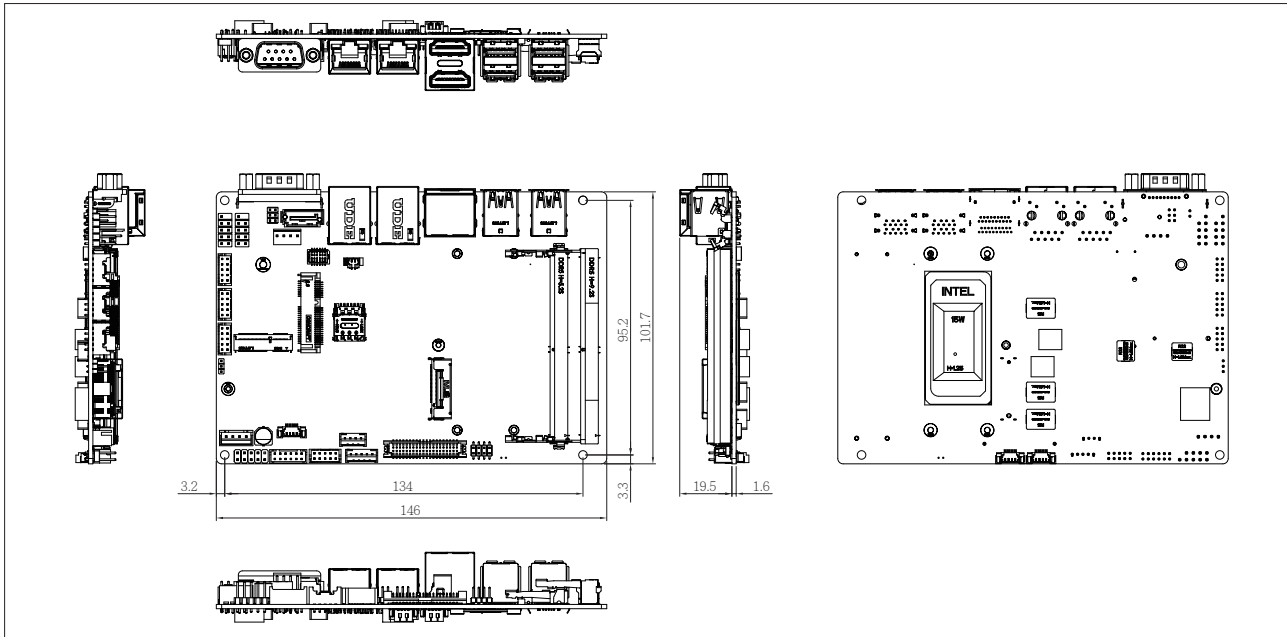
Specifications

Form Factor	3.5" SBC 146W x 101.7Dmm
CPU	Intel® Core™ Ultra 7 Processor 255U Intel® 3, 12 cores, 2P+8E+2LPE, 14 threads, up to 5.20 GHz, TDP 15W 12 MB Smart Cache
Socket	1 x FCBGA2049
Chipset	—
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
Ethernet	2 x 2.5GbE LAN Ports (Intel® I226V & I226LM)
Video	Integrated Graphics Processor - Intel® Graphics 2 x HDMI2.1 port, supporting a maximum resolution of 7680x4320 @60Hz (HDMI 2 port support HDMI CEC) 1 x LVDS port, supporting a maximum resolution of 1920x1200 @60Hz (3 independent display outputs)

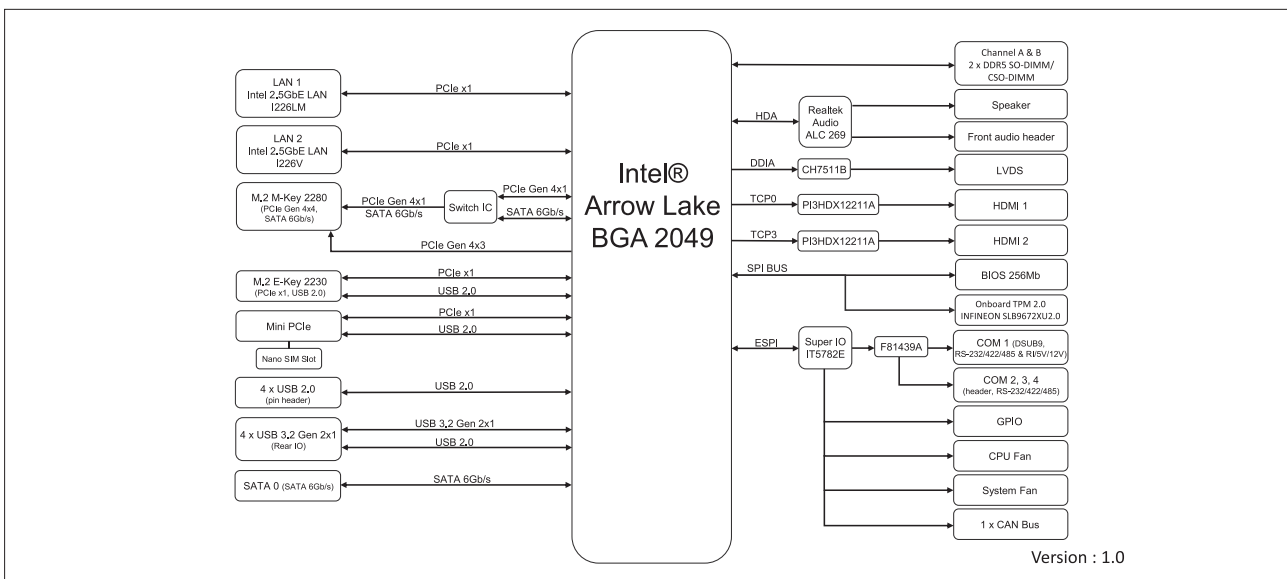
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Dimension (Unit: mm)

2026/04/29



Block Diagram



Optional Kit

Part No.	Description	Quantity
25ST1-113105-A7R	Fanless Heatsink	1
25ST4-113104-A7R	Fansink	1
25ST1-713000-Y0R	Heat spreader	1

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