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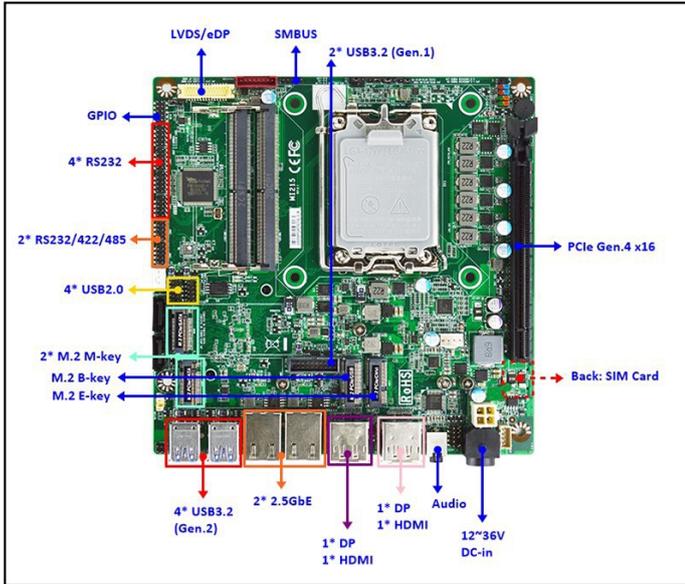
Mini-ITX Motherboard with Intel® Q670E Chipset, LGA 1700 Socket for 12th/13th/14th Gen Processors, DDR5 up to 96GB, 12–36V DC-in

Features

- **Powered by Intel® 14th/13th/12th Gen LGA1700 Socket Processors** (Raptor Lake-S/Alder Lake-S, Max 65W TDP)
- **High-Performance Memory: Dual DDR5 SO-DIMM, up to 96GB**
- **Dual 2.5GbE LAN: High-speed networking**
- **Quad Display Support: 2 x HDMI, 2 x DP, 1 x LVDS/eDP for 4K displays**
- **Storage & Expansion: 2 x SATA, 2 x M.2 M-key, 1 x M.2 E-key, 1 x M.2 B-key for 4G/5G, 1 x PCIe x16 (Gen 4)**
- **Comprehensive I/O: 2 x RS232/422/485, 4 x RS232, 4 x USB 3.2 Gen 2, 2 x USB 3.2, 4 x USB 2.0**
- **Wide Range Power Input: DC-in 12V–36V for industrial use**
- **Advanced Power Protection: Supports RVP, OCP, and OVP**

Specifications

SYSTEM

MB FORM FACTOR	Mini-ITX
CPU	Intel® LGA1700 12/13/14th Gen Socket Processor (Formerly Alder Lake-S, TDP 65W)
CHIPSET	Intel® Q670E
MEMORY	2 x DDR5 4800MHz, Dual Channel SO-DIMM, up to 96GB Actual memory support depends on the specific CPU and model
BIOS	AMI Flash ROM
WATCHDOG TIMER	255 Levels
SECURITY	—
DIMENSION (W X D)	170.0 (W) x 170.0 (D) mm (6.7" x 6.7")
OS SUPPORT	Windows® 11 (64bit) Windows® 10 (64bit) Linux

POWER

POWER REQUIREMENT	DC-in 12~36V
POWER ON MODE	AT / ATX
CONNECTOR	DC Jack

DISPLAY

GPU	Intel® HD Graphics
LVDS	1 x LVDS (Max. Resolution: 1920 x 1200 @60Hz, Co-lay eDP)
DP	2 x DP1.4a (Max Resolution: 4096 x 2304@60Hz)
HDMI	2 x HDMI 2.0b (Max Resolution: 4096 x 2160@60Hz)
MULTIPLE DISPLAY	Support 4 Displays

AUDIO

CODEC	Realtek Audio Codec
COMBO	1 x Combo Audio Jack for Line-Out / Mic-In
AMPLIFIER	3W

LAN

ETHERNET	1 x RJ45 for Intel® I226-V 2.5GbE 1 x RJ45 for Intel® I226-LM 2.5GbE

USB PORT

USB	4 x USB 3.2 Gen 2x1 (10Gbps, Formerly USB 3.1 Gen 2) Internal Header for 2 x USB 3.2 Internal Header for 4 x USB 2.0

SERIAL PORT

COM	Internal Header for 2 x RS-232/422/485 Internal Header for 4 x RS-232

INTERNAL I/O

GPIO	8-Bit
SMBUS	Yes
ADDITIONAL	1 x LVDS (co-layout eDP) 1 x Chassis Intrusion 1 x Audio Header 1 x AT Mode Selection

STORAGE

SATA	2 x SATA III 1 x SATA Power Connector
RAID	RAID 0/1

EXPANSION

M.2	1 x M-Key 2242 (PCIe Gen.4 x4/SATA interface) support NVMe 1 x M-Key 2280 (PCIe Gen.3 x4/SATA interface) support NVMe 1 x E-Key 2230 (USB 2.0/PCIe x1) Support CNVio for Wi-Fi 1 x B-Key 3042/3052 (USB3.1/USB2.0/PCIe x1) for 4G/5G module
PCIe	1 x PCIe x16 (Gen.4)
SIM	1 x SIM Card Slot

ENVIRONMENT & CERTIFICATION

SHOCK	15G, 11ms duration
VIBRATION	1 Grms/ 5~ 500Hz/ Operation
OPERATING TEMPERATURE	0°C ~ 60°C (32°F ~ 140°F)
STORAGE TEMPERATURE	-20°C ~ 85°C (-4°F ~ 185°F)
OPERATING HUMIDITY	10 ~ 90% Relative Humidity, Non-condensing
CERTIFICATION	CE/FCC Class A LVD
ESG DECLARATION	EU RoHS China RoHS REACH

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Note: All specifications are subject to change without notice.

Dimension   Unit: mm