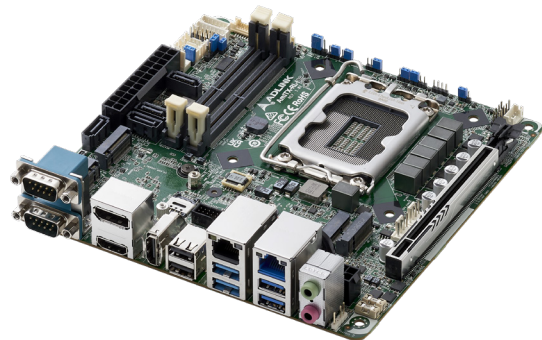


AmITX-RL-I

Industrial Mini-ITX Motherboard
with 12/13/14th Gen Intel® Core™
i9/i7/i5/i3 Processors



Features

- 12/13/14th Gen Intel® Core™ i9/i7/i5/i3 processors and Q670 chipset, up to 65W
- Dual-channel DDR5 4800 MHz memory up to 64 GB
- Quad. independent display: HDMI 2.0b, HDMI 1.4b, DP 1.4a, LVDS or eDP
- Dual GbE ports: 1x 1GbE, 1x 2.5GbE
- Expansion slots: 1x PCIe x16, 4x USB 3.2 Gen2, 2x USB 3.2 Gen1, 4x USB 2.0, 1x M.2 B-key, 1x M.2 E-key, 2x M.2 M-key

Ordering Information

- AmITX-RL-I
Mini-ITX 12/13/14th Intel® Core™ i9/i7/i5/i3 industrial
motherboard
Note: CPU, memory module, and cooler kit are not included

Optional Accessories

- | | |
|--------------------------|------------------|
| • CPU cooler for 65W CPU | 32-20976-0000-A0 |
| • USB 2.0 Cable | 30-21625-0000-B0 |
| • USB 3.0 Cable | 30-21597-1000-A0 |
| • SATA Cable | 30-10057-7000 |

Packing Lists

- AmITX-RL-I I/O shield
- M.2 screws kits

Specifications

Processor System	CPU	Intel® 12/13/14th Generation Core™ i3/i5/i7/i9 LGA1700 CPU, up to 65W
	Chipset	Intel® Q670 Express Chipset
	Memory	2x 262-pin non-ECC SO-DIMM sockets Dual-channel DDR5 4800 MHz, up to 64 GB
	BIOS	BIOS AMI® UEFI BIOS, 256Mb SPI Flash Memory
	Hardware Monitor	CPU voltage +3.3 V voltage +5 V voltage +12 V voltage CPU temperature System temperature CPU fan speed System fan speed
	Operating Systems	Microsoft® Windows® 10/11 64-bit Linux
I/O Interfaces	Serial Ports	2x RS-232/422/485 (rear I/O) 2x RS-232 (via headers)
	Ethernet	1x Intel® i226-V, 2.5GbE, 1x Intel® i219-LM, 1GbE
	SATA	4x SATA3.0 connectors Intel® Software RAID support 0/1/5/10
	USB	4x USB3.2 Gen2 x1 (rear I/O) 2x USB2.0 (rear I/O) 2x USB3.2 Gen1 x1 (via header) 2x USB2.0 (via header)
	Expansion Slot	1x PCIe Gen5 x16 1x M.2 B-key 3042/3052 (PCIe x1, USB3.2 Gen1, USB 2.0) for 4G/5G module 1x M.2 E-key 2230 (PCIe x1, USB 2.0, CNVi) for Wireless 1x M.2 M-Key 2242 (PCIe Gen3 x4, SATA) for SSD 1x M.2 M-Key 2242/2280 (PCIe Gen4 x4) for SSD 1x SIM socket connected to M.2 B Key
I/O Interfaces	DIO	8-bit GPIO
	TPM	TPM 2.0 onboard IC
Audio	Audio	Realtek ALC897
	Interface	1x Line-out and 1x Mic-in connector (rear I/O)
Graphics	Multiple Display	Four Display
	HDMI	1x HDMI 2.0b, max resolution up to 4096x2160@60Hz 1x HDMI 1.4b, max resolution up to 4096x2160@30Hz
	DisplayPort	1x DP 1.4a, DP++, max resolution up to 4096x2160@60Hz
	LVDS	Dual channel 24-bit, max resolution up to 1920x1200@60Hz (Connector shared with eDP)
	eDP	max resolution up to 1920x1200@60Hz (Connector shared with LVDS)
Mechanical and Environmental	Form Factor	Mini-ITX
	Dimension	170 mm x 170 mm (W x L)
	Operating Temperature	0 °C to 60 °C
	Storage Temperature	-40°C to 85°C
	Relative Humidity	55 °C @ 95% RH, Non-condensing
	Certification	CE & FCC Class B