

MX-RPLPS

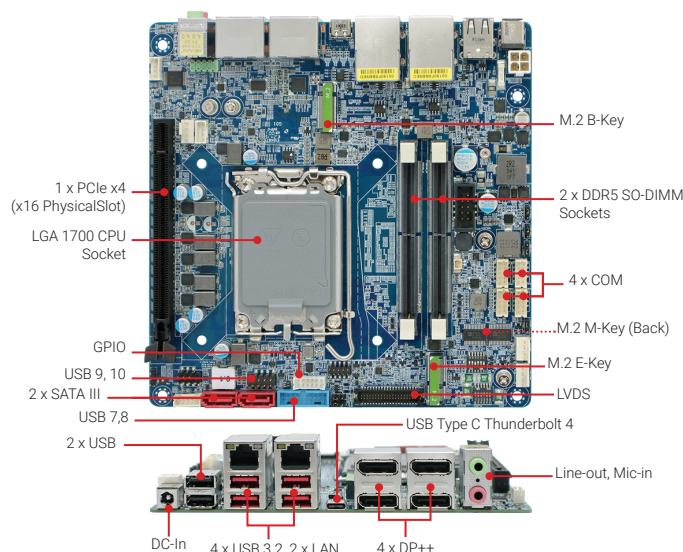
Mini ITX Motherboard, CPU + PCH Multichip Package,
LGA 1700 socket supports Intel® Core™ Processor

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Features

- LGA 1700 socket supports Intel® Core™ 7/5/3 Processor, formerly the Raptor Lake PS (RPL-PS) Platform
- 2 x DDR5 5200MHz SO-DIMM sockets support up to 96GB
- Intel® Graphics with up to 96 graphics EUs (CPU Dependent)
- 4 x DP++, supports 4 Independent Displays
- Onboard LVDS, optional eDP
- Dual LAN, 2 x Intel® I226-LM 2.5GbE Ethernet Controllers
- 1 x USB Type C Thunderbolt® 4
- 4 x USB 3.2 Gen 2, 2 x USB 3.2 Gen 1, 4 x USB 2.0
- Gen4 PCIe x4 Slot (x16 Physical Slot)
- 1 x M.2 M-Key 2242/2280 NVMe
- 1 x M.2 B-Key 3042/3052
- 1 x M.2 E-Key 2230 (PCIe x1 Channel & USB Signal)
- 4 x COM Ports
- 12-24V Wide Range DC-in
- TPM 2.0

SPECIFICATIONS

System

Processor	LGA 1700 Supports Intel® Core™ 7/5/3 Processor up to 45W, formerly Raptor Lake PS Platform
Memory	2 x DDR5 5200MHz SO-DIMM Sockets support up to 96GB
BIOS	256Mb SPI BIOS
Expansion	1 x PCIe Gen4 x4 (x16 Physical Slot) 1 x M.2 E-Key 2230 (PCIe x1 Channel & USB Signal) 1 x M.2 M-Key 2280 & 2242 NVMe (Gen4 PCIe) 1 x M.2 B-Key 3052 & 3042 (PCIe x2 & USB Signal)
TPM	TPM 2.0
H/W Monitor	Yes
Watchdog Timer	1 Sec ~ 255 Sec
Supported OS	Win 10, Win 11, Linux Ubuntu

Graphics

Chipset	Integrated Intel® Graphics
Interface	4 x DisplayPort 1.4a @ 60Hz 18/24 bits Dual Channel LVDS. Optional eDP
Multi-Display	Supports 4 Independent Displays

Ethernet / LAN

Controller	2 x Intel® Ethernet Controller I226-LM
Interface	2 x 10/100/1000/2.5G Base-Tx GbE Compatible
Connector	2 x RJ45 LAN

Audio

Audio Codec	Realtek HD Audio Codec
Interface	1 x Line-out, 1 x Mic-in

External I/O Ports

Display	4 x DisplayPorts (DP++)
USB	4 x USB 3.2 Gen 2 Type A 2 x USB 2.0 Type A 1 x USB Type C Thunderbolt 4
LAN	2 x RJ45 LAN
Audio	Line-out, Mic-in
Power Input	1 x Barrel Type DC-in Connector Inner Diameter (ID): 2.5mm/ Outer Diameter (OD): 5.5mm

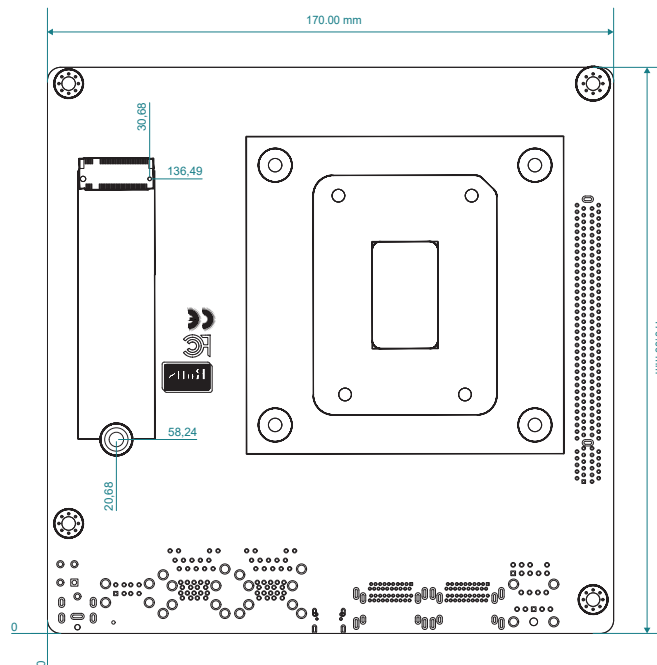
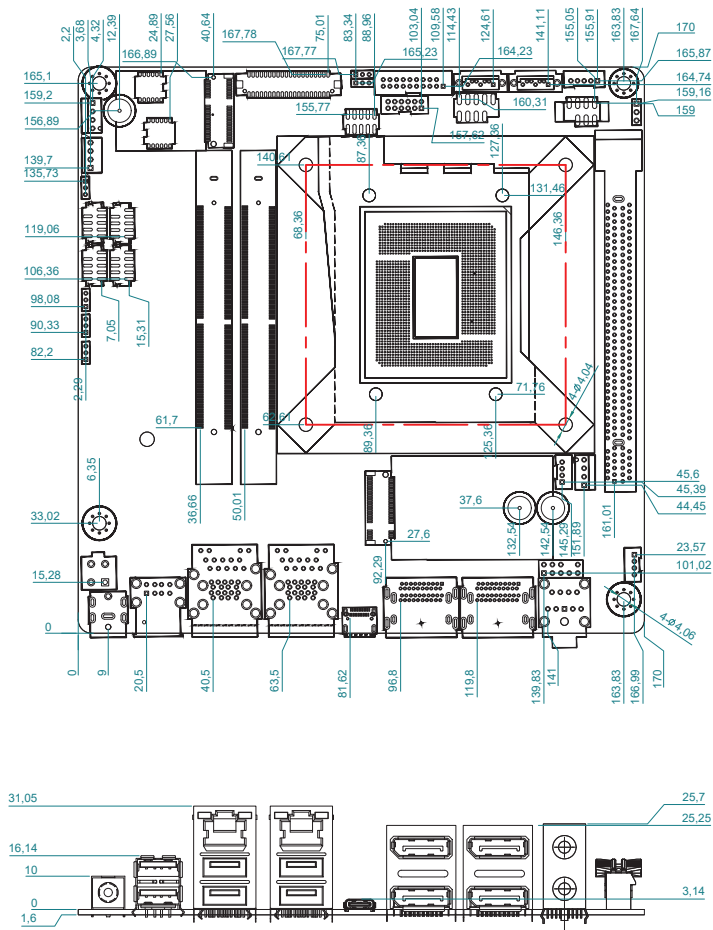
Internal I/O Connectors

Display	1 x LVDS Header 1 x eDP Header (Optional)
USB	1 x USB 3.2 Gen 1 Header (2 Ports) 1 x USB 2.0 Header (2 Ports)
COM/Serial Port	2 x RS-232/422/485 Headers 2 x RS-232 Headers
SATA	1 x SATA III
Additional I/O	1 x 8-bits GPIO Header 1 x I²C, 4-pin DC-in Connector

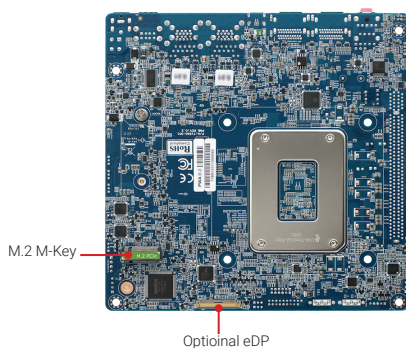
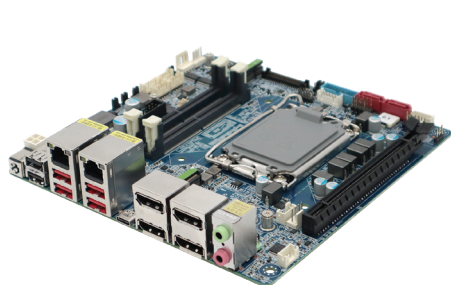
Mechanical, Power, and Environment

Power	12V-24V Wide Range DC-In
Operating Temp	0°C to 60°C (32°F ~ 140°F)
Storage Temp	-10°C ~ 60°C (-40°F ~ 167°F)
OP Humidity	5% ~ 85% Relative Humidity, Non-condensing
Certification / Compliance	FCC Class B/CE RoHS Compliant
Form Factor	Mini ITX
Dimensions	6.7" x 6.7" (170mm x 170mm)
Weight	0.88 lbs (0.4 KG)

MECHANICAL DRAWING

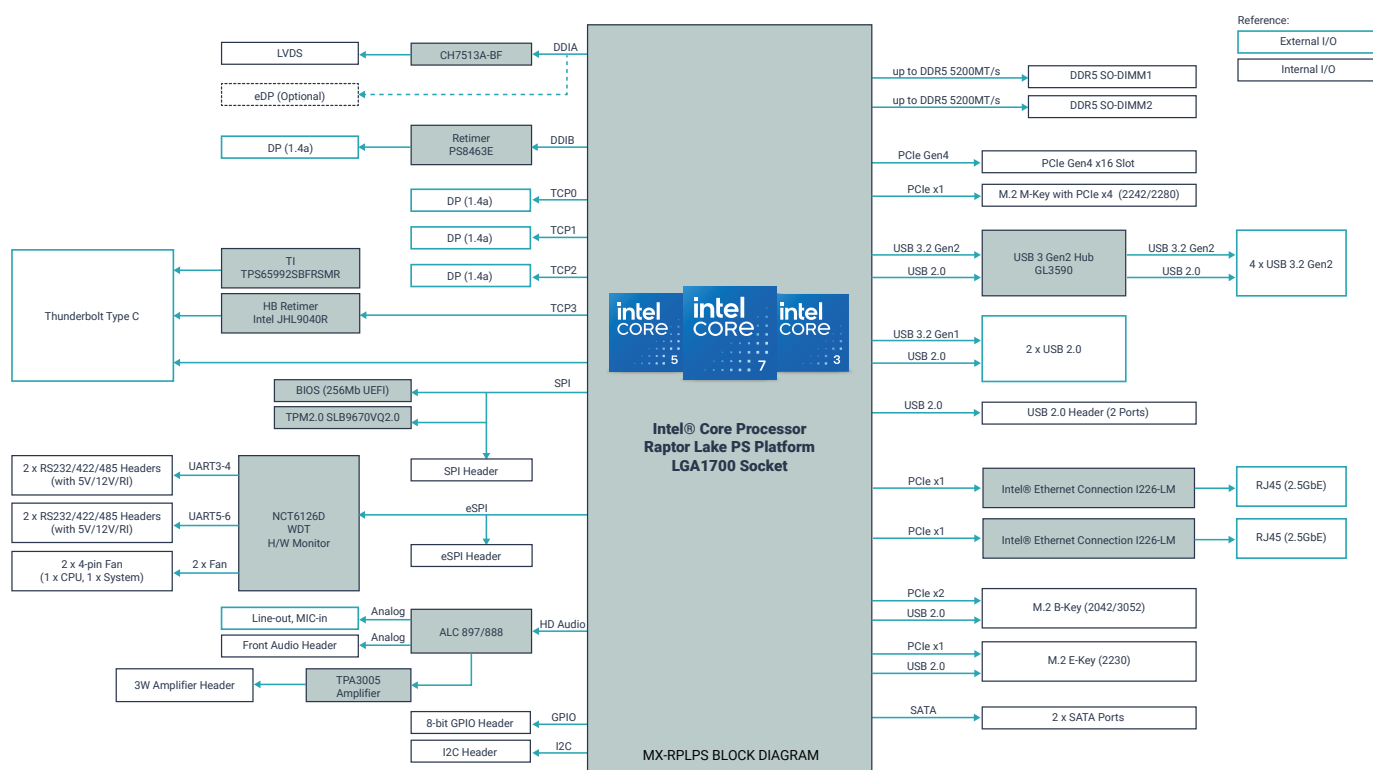


SPECIFICATIONS / ADDITIONAL PRODUCT PHOTOS



Looking for a compact chassis with quick turnaround for evaluation and faster time-to-market? Check out our BI series Barebone Computer.

BLOCK DIAGRAM



ORDERING INFORMATION

Model Name	CPU/CPU Socket	Memory / Storage	LAN	Low Profile I/O	Power Input
MX-RPLPS	LGA 1700	2 x SO-DIMM sockets	2 x 2.5GbE LAN	No	DC-in 12-24V
Model Name	Description				
183000000006	2.00mm pitch 12" length serial cable				
182437200040	2.54mm pitch 14" length dual port USB 2.0 cable w/ full height bracket				
182000000073	2.00mm pitch 19.7" length dual port serial cable w/ full height bracket				

PACKING LIST

- ✓ 1 x MX-RPLPS Motherboard
- ✓ 1 x SATA Power Cable for Two Devices
- ✓ 1 x Full Height I/O Shield



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