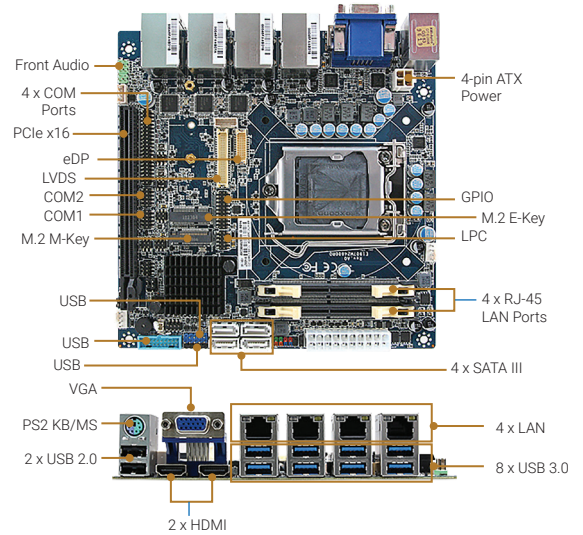


* This is an OEM Only Product

Features

- Four (4) LAN/Ethernet Ports onboard
- LGA 1151 Socket supports 8/9th Gen. Intel® Core™ i7/i5/i3, Pentium®, Celeron®, Xeon® E-2200/2100 Processor
- 2 x DDR4 2400/2666MHz SODIMM sockets support up to 64GB (ECC memory supported by CPU)
- 2 x HDMI, VGA, Dual-CH LVDS, Optional eDP
- 4 x SATA III, Support RAID 0, 1, 5, 10
- 1 x M.2 M-Key (2242/2260/2280) supports Intel® RST, PCIe x4 mode SSD
- 1 x M.2 E-Key (2230) supports Wi-Fi module
- 1 x PCIe x16
- 6 x COM Ports
- 8 x USB3.0, 2 x USB 2.0 External USB Ports
- Onboard USB: 1 x USB 3.0 Header, 2 x USB 2.0 Headers
- TPM 2.0
- ATX Power



Specifications

System	
CPU	Intel® LGA1151 Socket Supports 8/9th Generation Core™ i7/i5/i3, Intel® Xeon® (Workstation), Pentium®, and Celeron® Processors Intel® 8th Gen processors support up to 95W Max. Intel® 9th Gen 4-Core and 6-Core processors support up to 95W. Intel® 9th Gen 8-Core processors support up to 35W Max.
Chipset	Intel® C246 Chipset
System Memory	2 x 260-pin DDR4 2400/2666MHz SODIMM supports up to 64GB (ECC memory supported by CPU)
Audio	HD Audio 2W Audio Amplifier
Ethernet	LAN 1: Intel® I219-LM Ethernet Controller LAN 2: Intel® I210-AT Ethernet Controller LAN 3: Intel® I210-AT Ethernet Controller LAN 4: Intel® I210-AT Ethernet Controller
I/O Chip	Nuvoton® NCT6106D
BIOS	AMI uEFI BIOS, 256Mbit SPI Flash ROM
Expansion	1 x PCIe x16 (support 2 x PCIe x8 Riser Card for C246 PCH by jumper) 1 x M.2 M-Key (2242/2260/2280) supports Intel® RST, PCIe x4 mode SSD 1 x M.2 E-Key (2230) supports Wi-Fi module
TPM	TPM 2.0
Watchdog Timer	H/W Reset, 5~255 seconds/5~255 minutes
H/W Status Monitor	CPU temperature monitoring, Voltages monitoring, CPU fan speed control
Display	
Chipset	8/9th Generation Intel® Integrated Graphics
Resolution	VGA: 2048 x 1536 @ 60 Hz HDMI: 3840 x 2160 @ 30 Hz, 2560 x 1600 @ 30 Hz
LVDS	Dual channel 18/24-bits LVDS Optional eDP
Multi-Display	Supports 3 Independent Displays

External I/O	
USB	8 x USB 3.0, 2 x USB 2.0
PS2 KB/MS	1 x PS2 KB/MS
Display	1 x VGA, 2 x HDMI
LAN	4 x RJ45
Internal I/O	
SATA	4 x SATA III, Support RAID 0, 1, 5, 10
LVDS	1 x LVDS/eDP Header, 1 x Backlight Header
USB	1 x USB 3.0 Header, 2 x USB 2.0 Headers
COM	2 x RS232/422/485, 4 x RS-232
DIO	1 x 16-bit GPIO
Mechanical & Environment	
Power Type	AT/ATX
Requirement	+12V/+5V/5VSB/+3.3V/-12V
ACPI	Single power ATX Support S0, S3, S4, S5
Operating Temp	0°C ~ 60°C (32°F ~ 140°F)
Storage Temp	-40° C ~ 75° C (-40°F ~ 167°F)
Op. Humidity	40°C @ 95% Relative Humidity, Non-condensing
Form Factor	Mini ITX
Dimensions	6.7" x 6.7" (170mm x 170mm)
Certification	CE, FCC Class B
Weight	approx 0.88 lbs (0.4kg)

* All product specifications and images are subject to change without notice. Last update: 10/31/2023

