



## EMX-C246P

Intel® 8th Generation Core™ Processor Mini ITX Motherboard With Intel® C246 Chipset

- > Intel® 8th Generation Core™ Processor (Max. TDP at 95W)
- > Intel® C246 Chipset
- > 2 x 260-pin DDR4 2400/2666MHz DIMM socket, supports up to 32GB (ECC memory supported by CPU)
- > 1 x Intel® I219LM Gigabit Ethernet PHY
- > 3 x Intel® I211AT PCIe Gigabit Ethernet
- > 2 x HDMI, VGA, Dual-CH LDVS co-lay eDP(By BOM option)
- > 4 x SATA III
- > 1 x M.2 (2242/2260/2280) M-Key, support Intel RST, PCIe x4 mode SSD
- > 1 x M.2 (2230) E-Key, support WiFi module
- > 1 x PCIe x 16
- > 6 x USB3.1 Gen1, 2 x USB3.0 at I/O, 1 x 2 x 10pin for 2 x USB3.0, 3 x USB2.0 by pin header
- > 4 x RS232 2 x RS232/422/485

### Spec

System	
<b>Processor</b>	Intel® LGA1151 Socket Supports 8th Generation Core™ i7/i5/i3 & / Intel® Xeon®Process(Workstation) / Pentium®/Celeron® Processors (Max. TDP at 95W)
<b>System Chipset</b>	Intel® C246 Chipset
<b>System Memory</b>	2 x 260-pin DDR4 2400/2666MHz DIMM supports up to 32GB (ECC memory supported by CPU)
<b>I/O Chip</b>	Nuvoton® NCT6106D
<b>BIOS</b>	AMI uEFI BIOS, 256Mbit SPI Flash ROM
<b>Watchdog Timer</b>	H/W Reset, 5~255 seconds/5~255 minutes
<b>H/W Status Monitor</b>	CPU temperature monitoring, Voltages monitoring, CPU fan speed control
<b>TPM</b>	Onboard Infineon SLB9665 supports TPM 2.0
<b>Board</b>	Mini ITX Board
Expansion	
<b>Expansion</b>	1 x PCIe x 16 1 x M.2 (2242/2260/2280) M-Key, supports Intel RST, PCIe x4 mode SSD 1 x M.2 (2230) E-Key, supports WiFi module
I/O	
<b>USB</b>	2 x USB 3.0 6 x USB 3.1 Gen1
<b>SATA</b>	4 x SATA III
<b>COM Port</b>	4 x RS232 2 x RS232/422/485
<b>DIO</b>	1 x 16-bit GPIO
Display	
<b>Chipset</b>	Intel® 8th Generation CPU integrated
<b>Resolution</b>	VGA: 2048 x 1536 @ 60 Hz HDMI: 3840 x 2160 @ 30 Hz, 2560 x 1600@ 30 Hz Dual channel 18/24-bits LVDS (Chrontel CH7511B eDP to LVDS)- By BOM option
<b>LVDS</b>	Dual channel 18/24-bits LVDS (Chrontel CH7511B eDP to LVDS)- By BOM option
<b>Multiple Display</b>	Triple Display
Audio	
<b>Chipset</b>	Realtek ALC662
<b>Audio Amplifier</b>	3W Amplifier
Ethernet	
<b>Chipset</b>	1 x Intel® I219LM Gigabit Ethernet PHY 3 x Intel® I211AT PCIe Gigabit Ethernet
<b>LAN Port</b>	4 x RJ-45
Mechanical & Environmental	
<b>Power Requirement</b>	+12V/+5V/5VSB/+3.3V/-12V
<b>ACPI</b>	Single power ATX Support S0, S3, S4, S5
<b>Power Type</b>	AT/ATX
<b>Operating Temp</b>	0~60°C (32~140°F)
<b>Storage Temp</b>	-40 ~ 75°C
<b>Operating Humidity</b>	0%~90% relative humidity, non-condensing
<b>Dimension (L x W)</b>	6.7" x 6.7" (170mm x 170mm)
<b>Weight</b>	0.4 kg

### Ordering

EMX-C246P-A1R  
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## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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