



## EMX-C246DP

Intel® 8/9th Gen. Core™  
i7/i5/i3/Pentium®/Celeron®/Xeon® E-2200/2100  
Processor Thin Mini ITX Motherboard With Intel®  
C246 Chipset

- > Intel® 8/9th Gen. Core™ i7/i5/i3/Pentium®/Celeron®/Xeon® E-2200/2100 Processor
- > Intel® C246 Chipset
- > 2 x 260-pin DDR4 2400/2666MHz SO-DIMM socket, supports up to 64GB (ECC memory supported by CPU)
- > 1 x Intel® I219LM Gigabit Ethernet PHY
- > 2 x Intel® I210AT PCI-e Gigabit Ethernet
- > 3 x HDMI, Dual-CH LVDS co-lay eDP (By BOM option)
- > 2 x SATA III
- > 1 x M.2 (2242/2260/2280) M-Key, support Intel RST, PCI-e x4 mode SSD
- > 1 x M.2 (2230) E-Key, support WiFi module

### Spec

System	
<b>Processor</b>	Intel® LGA1151 Socket Supports 8/9th Generation Core™ i7/ i5/ i3 & / Intel® Xeon® Processor(Workstation) / Pentium®/Celeron® Processors
<b>System Chipset</b>	Intel® C246 Chipset
<b>System Memory</b>	2 x 260-pin DDR4 2400/2666MHz SO-DIMM supports up to 64GB (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>	Thin Mini ITX Board
Expansion	
<b>Expansion</b>	1 x PCI-e x16 1 x M.2 (2242/2260/2280) M-Key, supports Intel RST, PCI-e x4 mode SSD 1 x M.2 (2230) E-Key, supports WiFi module 1 x M.2 (3042/2242/2260/2280) B-Key, support WWAN+GNSS with SIM card slot & SSD (SATA)
I/O	
<b>USB</b>	3 x USB 3.1 Gen 2, 1 x USB 3.1 Gen 1 at I/O 4 x USB 2.0 by pin header 1 x 2 x 10 pin, pitch 2.0mm connector for 2 x USB 3.0
<b>SATA</b>	2 x SATA III, 2 x SATA power
<b>COM Port</b>	3 x RS232 1 x RS232/422/485
<b>DIO</b>	1 x 16-bit GPIO
Display	
<b>Chipset</b>	Intel® 8/9th Generation CPU integrated
<b>Resolution</b>	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>	6W Amplifier
Ethernet	
<b>Chipset</b>	1 x Intel® I219LM Gigabit Ethernet PHY 2 x Intel® I210AT PCI-e Gigabit Ethernet
<b>LAN Port</b>	3 x RJ-45
Mechanical & Environmental	
<b>Power Requirement</b>	DC in +12V~26V(+/-5%) 4-pin DC-in
<b>ACPI</b>	Single power ATX Support S0, S3, S4, S5
<b>Power Type</b>	AT/ATX
<b>Operating Temperature</b>	0~60°C (32~140°F)
<b>Storage Temperature</b>	-40 ~ 75°C
<b>Operating Humidity</b>	40°C @ 95% 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-C246DP-A1R  
Intel® 8/9th Gen. Core™ i7/i5/i3/Pentium®/Celeron®/Xeon® E-2200/2100 Processor Thin Mini ITX Motherboard With Intel® C246 Chipset

## 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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