



EMX-C246P

Intel® 8/9th Gen. Core™
i7/i5/i3/Pentium®/Celeron®/Xeon® E-2200/2100
Processor 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
- > 3 x Intel® I210AT PCIe Gigabit Ethernet
- > 2 x HDMI, VGA, Dual-CH LVDS co-lay eDP(By BOM option)
- > 4 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
- > 1 x PCI-e x16
- > 8 x USB3.0 at I/O, PS2 KB/MS + 2 x USB 2.0 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
- > Support RAID 0, 1, 5, 10
- > Onboard Infineon SLB9665 support TPM 2.0
- > ATX Power

+ Spec

System Information

Processor	Intel® LGA1151 Socket Supports 8/9th Generation Core™ i7/ i5/ i3 & / Intel® Xeon®Processor(Workstation) / Pentium®/Celeron® Processors
Platform Controller Hub	Intel® C246 Chipset
System Memory	2 x 260-pin DDR4 2400/2666MHz SO-DIMM supports up to 64GB (ECC memory supported by CPU)
I/O Chipset	Nuvoton® NCT6106D
BIOS Information	AMI uEFI BIOS, 256Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 5~255 seconds/5~255 minutes
H/W Status Monitor	CPU temperature monitoring, Voltages monitoring, CPU fan speed control
TPM	Onboard Infineon SLB9665 supports TPM 2.0
Board	Mini ITX Board

Expansion

Expansion	1 x PCI-e x16 (Support 2 x PCI-e x8 Riser card for C246 PCH by jumper) 1 x M.2 (2242/2260/2280) M-Key, supports Intel RST, PCI-ex4 mode SSD 1 x M.2 (2230) E-Key, supports WiFi module
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I/O

USB Port	8 x USB 3.0, PS2 KB/MS + 2 x USB2.0
COM Port	4 x RS232 2 x RS232/422/485
SATA	4 x SATA III
DIO	1 x 16-bit GPIO

Display

Graphic Chipset	Intel® 8/9th Generation CPU integrated
Spec. & Resolution	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
Multiple Display	Triple Display
LVDS	Dual channel 18/24-bits LVDS (Chrontel CH7511B eDP to LVDS)- By BOM option

Audio

Audio Codec	Realtek ALC888S & ALC897 (co-lay)
Audio Amplifier	3W Amplifier

Ethernet

LAN Chipset	1 x Intel® I219LM Gigabit Ethernet PHY 3 x Intel® I210AT PCIe Gigabit Ethernet
LAN Port	4 x RJ-45

Mechanical & Environmental

Operating Temperature	0~60°C (32~140°F)
Storage Temperature	-40 ~ 75°C
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Weight	0.4 kg
Power Requirement	+12V/+5V/5VSB/+3.3V/-12V
ACPI	Single power ATX Support S0, S3, S4, S5
Power Mode	AT/ATX
Dimension (L x W)	6.7" x 6.7" (170mm x 170mm)

Ordering Information

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EMX-C246P-B1R

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

Intel® 8th Gen Supports LGA 1151 CPU Up to 95W Max.

Intel® 9th Gen Supports LGA 1151 CPU 4 core & 6 core CPU Up to 95W, but kindly note: with 8 core CPU, only support CPU up to 35W Max.