



EMX-H310DP

Intel® 8/9th Gen. Core™
i7/i5/i3/Pentium®/Celeron® Processor Thin Mini ITX
Motherboard With Intel® H310 Chipset

- > Intel® 8/9th Gen. Core™ i7/i5/i3/Pentium®/Celeron® Processor
- > Intel® H310 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 PCIe Gigabit Ethernet
- > 3 x HDMI, Dual-CH LVDS
- > 2 x SATA III
- > 1 x M.2 (2230) E-Key, support WiFi module
- > 1 x M.2 (3042/2242/2260/2280) B-Key, support WWAN+GNSS (USB2.0) with SIM card slot & SSD (SATA)
- > 1 x PCI-e x16
- > 3 x USB3.1 Gen 2, 1 x USB3.1 Gen1 at I/O, 3 x USB2.0 by pin

+ Spec

System	
Processor	Intel® LGA1151 Socket Supports 8/9th Generation Core™ i7/ i5/ i3 & Pentium®/Celeron® Processors
System Chipset	Intel® H310 Chipset
System Memory	2 x 260-pin DDR4 2400/2666MHz SO-DIMM supports up to 64GB
I/O Chip	Nuvoton® NCT6106D
BIOS	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 1 x M.2 (2230) E-Key, supports WiFi module 1 x M.2 (3042/2242/2260/2280) B-Key, support WWAN+GNSS (USB2.0) with SIM card slot & SSD (SATA)
I/O	
USB	3 x USB 3.1 Gen 2, 1 x USB 3.1 Gen 1 at I/O 3 x USB 2.0 by pin header
SATA	2 x SATA III, 2 x SATA power
COM Port	3 x RS232 1 x RS232/422/485
DIO	1 x 16-bit GPIO
Display	
Chipset	Intel® 8/9th Generation CPU integrated
Resolution	HDMI: 3840 x 2160 @ 30 Hz, 2560 x 1600 @ 30 Hz Dual channel 18/24-bits LVDS
LVDS	Dual channel 18/24-bits LVDS
Multiple Display	Dual Display
Audio	
Chipset	Realtek ALC662
Audio Amplifier	6W Amplifier
Ethernet	
Chipset	1 x Intel® I219LM Gigabit Ethernet PHY 2 x Intel® I210AT PCIe Gigabit Ethernet
LAN Port	3 x RJ-45
Mechanical & Environmental	
Power Requirement	DC in +12V~28V(+/-5%) 4-pin DC-in
ACPI	Single power ATX Support S0, S3, S4, S5
Power Type	AT/ATX
Operating Temperature	0~60°C (32~140°F)
Storage Temperature	-40 ~ 75°C
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (L x W)	6.7" x 6.7" (170mm x 170mm)
Weight	0.4 kg

+ Ordering

EMX-H310DP-A1R
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