



EMX-H310C

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

- > Intel® 8/9th Gen. Core™ i7/i5/i3/Pentium®/Celeron®/Processor (Max. TDP at 65W)
- > Intel® H310 Chipset
- > 2 x 260-pin DDR4 2400/2666MHz SO-DIMM socket, supports up to 64GB
- > 2 x Realtek RTL8111H Gigabit Ethernet
- > VGA, HDMI, Dual-CH LVDS co-lay eDP (By BOM option, default no LVDS & no eDP)
- > 2 x SATA III
- > 1 x Mini PCI-e supports USB 2.0 with SIM card slot
- > 1 x mSATA slot
- > 1 x M.2 (2230) E-Key, support WiFi module
- > 1 x PCI-e x1
- > 4 x USB3.1 Gen1, 6 x USB 2.0, PS2 KB/MS + 2 x USB 2.0 at I/O, 2 x USB2.0 by pin header
- > 5 x RS232, 1 x RS232/422/485
- > ATX Power

+ Spec

System Information

Processor	Intel® LGA1151 Socket Supports 8/9th Generation Core™ i7/ i5/ i3/ Pentium®/Celeron® Processors (MAX. TDP 65W)
Platform Controller Hub	Intel® H310 Chipset
System Memory	2 x 260-pin DDR4 2400/2666MHz SO-DIMM supports up to 64GB
I/O Chipset	ITE8786E
BIOS Information	AMI uEFI BIOS, 128Mbit 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
Board	Mini ITX Board

Expansion

Expansion	1 x PCI-e x1 1 x Full size Mini PCI-e supports USB 2.0 with SIM card slot 1 x M.2 (2230) E-Key, supports WiFi module (1 x PCI-e x1 and USB 2.0 Signal)
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Storage

Storage	1 x mSATA slot (w USB 2.0 Signal only)
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I/O

USB Port	6 x USB 3.1 Gen1, 2 x USB 2.0, PS2 KB/MS + 2 x USB2.0
COM Port	5 x RS232 1 x RS232/422/485
SATA	2 x SATA III
DIO	1 x 8-bit GPIO

Display

Graphic Chipset	Intel® 8/9th Generation CPU integrated
Spec. & Resolution	VGA: 2048 x 1536 @ 60 Hz HDMI 1.4b: 4096x2160@30Hz LVDS : 1024x768@60Hz default, colay eDP 2 lanes 1920 x 1080@60Hz by BOM optional *default no LVDS, no eDP
Multiple Display	Dual Display
LVDS	Dual channel 18/24-bits LVDS (Chrontel CH7511B eDP to LVDS)- By BOM option

Audio

Audio Codec	Realtek ALC897 Audio Codec colay ALC662
Audio Amplifier	3W Amplifier

Ethernet

LAN Chipset	1 x Realtek RTL8111H Gigabit Ethernet
LAN Port	2 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-H310C-A1R
Intel® 8/9th Gen. Core™ i7/i5/i3/Pentium®/Celeron® Processor Mini ITX Motherboard With Intel® H310 Chipset (no LVDS, no eDP)