



## 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™/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-	
<b>Processor</b>	Intel® LGA1151 Socket Supports 8/9th Generation Core™/Pentium®/Celeron® Processors (MAX. TDP 65W)
<b>Platform Controller Hub</b>	Intel® H310 Chipset
<b>System Memory</b>	2 x 260-pin DDR4 2400/2666MHz SO-DIMM supports up to 64GB
<b>I/O Chipset</b>	ITE8786E
<b>BIOS Information</b>	AMI uEFI BIOS, 128Mbit 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>Board</b>	Mini ITX Board
Expansion	
<b>Expansion</b>	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)
Storage	
<b>Storage</b>	1 x mSATA slot (w USB 2.0 Signal only)
I/O	
<b>USB Port</b>	6 x USB 3.1 Gen1, 2 x USB 2.0, PS2 KB/MS + 2 x USB2.0
<b>COM Port</b>	5 x RS232 1 x RS232/422/485
<b>SATA</b>	2 x SATA III
<b>DIO</b>	1 x 8-bit GPIO
Display	
<b>Graphic Chipset</b>	Intel® 8/9th Generation CPU integrated
<b>Spec. &amp; Resolution</b>	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
<b>Multiple Display</b>	Dual Display
<b>LVDS</b>	Dual channel 18/24-bits LVDS (Chrontel CH7511B eDP to LVDS)- By BOM option
Audio	
<b>Audio Codec</b>	Realtek ALC897 Audio Codec colay ALC662
<b>Audio Amplifier</b>	3W Amplifier
Ethernet	
<b>LAN Chipset</b>	1 x Realtek RTL8111H Gigabit Ethernet
<b>LAN Port</b>	2 x RJ-45
Mechanical & Environmental	
<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>Weight</b>	0.4 kg
<b>Power Requirement</b>	+12V/+5V/5VSB/+3.3V/-12V
<b>ACPI</b>	Single power ATX Support S0, S3, S4, S5
<b>Power Mode</b>	AT/ATX
<b>Dimension (L x W)</b>	6.7" x 6.7" (170mm x 170mm)
Ordering Information	



**Ordering Information**

EMX-H310C-A1R  
Intel® 8/9th Gen. Core™/Pentium®/Celeron® Processor Mini ITX Motherboard With Intel® H310 Chipset (no LVDS, no eDP)

[www.avalu.com.tw](http://www.avalu.com.tw)

## 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.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660