



## EMX-H110P

Intel® 6th Generation Core™ Processor Mini ITX Motherboard with Intel® H110 Express Chipset

- > Intel® 6th Generation Core™ Processor (Max. TDP at 95W)
- > Intel® H110 Express Chipset
- > 2 x 260-pin DDR4 2133MHz SO-DIMM supports up to 32GB
- > VGA, HDMI, DP, Dual channel 18/24-bits LVDS (Chrontel CH7511B eDP to LVDS)
- > 3 x SATA III, 1 x SATA III or 1 x mSATA III switch by BIOS
- > 4 x USB 3.0, 2 x USB 2.0 at I/O
- > 5 x RS232, 1 x RS232/422/485
- > Line-in, Mic-in, Line-out
- > Onboard Infineon SLB9665 support TPM 2.0 (Optional)
- > ATX Power

### + Spec

System	
<b>Processor</b>	Intel® LGA1151 Socket Supports 6th Generation Core™ i7/ i5/ i3 Processors (Max. TDP at 95W)
<b>System Chipset</b>	Intel® H110 Express Chipset
<b>System Memory</b>	2 x 260-pin DDR4 2133MHz SO-DIMM supports up to 32GB
<b>I/O Chip</b>	Nuvoton® NCT6106D
<b>BIOS</b>	AMI uEFI BIOS, 128Mbit SPI Flash ROM
<b>Watchdog Timer</b>	H/W Reset, 1sec. – 65535sec./min.1sec. or 1min. step
<b>H/W Status Monitor</b>	CPU temperature monitoring Voltages monitoring CPU fan speed control
<b>TPM</b>	Infineon SLB9665 support TPM 2.0 (Optional)
<b>Board</b>	Mini ITX
Expansion	
<b>Expansion</b>	1 x PCIe x 16 1 x Full Size Mini PCIe Supports mSATA (by auto switch IC) 1 x Half Size Mini PCIe
I/O	
<b>USB</b>	4 x USB 2.0 4 x USB 3.0
<b>SATA</b>	3 x SATA III, 1 x SATA III or 1 x mSATA III switch by BIOS selection
<b>COM Port</b>	5 x RS232 1 x RS232/422/485
<b>Other</b>	Infineon SLB9665 support TPM 2.0 (Optional)
<b>DIO</b>	1 x 8-bit GPIO
<b>MIO</b>	1 x PS/2 Keyboard or 1 x PS/2 Mouse
Display	
<b>Chipset</b>	Intel® 6th Generation CPU integrated VGA + HDMI + DP
<b>Resolution</b>	VGA: 2560 x 1600 @ 60Hz HDMI: 3840 x 2160 @ 30Hz DP: 4096 x 2304 @ 60Hz
<b>LVDS</b>	Dual channel 18/24-bits LVDS (Chrontel CH7511B eDP to LVDS)
<b>Multiple Display</b>	Dual Display
Audio	
<b>Chipset</b>	Realtek ALC892 HD Audio Decoding Controller
<b>Audio Interface</b>	Mic-in, Line-out, Line-in
<b>Audio Amplifier</b>	2 x 6W Amplifier
Ethernet	
<b>Chipset</b>	1 x Intel® I219LM Gigabit Ethernet PHY 1 x Intel® I211AT PCIe Gigabit Ethernet
<b>LAN Port</b>	2 x RJ-45
Mechanical & Environmental	
<b>Power Requirement</b>	+12V/+5V/5VSB/+3.3V/-12V
<b>ACPI</b>	Single power ATX Support S0, S3, S4, S5
<b>Power Type</b>	AT/ATX
<b>Operating Temp</b>	0~60°C (32~140°F)
<b>Storage Temp</b>	-40~ 75°C (-40~167°F)
<b>Operating Humidity</b>	0%~90% relative humidity, non-condensing
<b>Dimension (L x W)</b>	6.69" x 6.69" (170mm x 170mm)
<b>Weight</b>	0.40 kg

### + Ordering

EMX-H110P-A1R  
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