



EMX-H110KP

Intel® 7th Generation Core™ Processor Mini ITX Motherboard with Intel® H110 Chipset

- > Intel® 7th Generation Core™ Processor (Max. TDP at 95W)
- > Intel® H110 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	
Processor	Intel® LGA1151 Socket Supports 6/7th Generation Core™ i7/ i5/ i3 & Pentium®/Celeron® Processors (Max. TDP at 95W)
System Chipset	Intel® H110 Chipset
System Memory	2 x 260-pin DDR4 2133MHz SO-DIMM supports up to 32GB
I/O Chip	Nuvoton® NCT6106D
BIOS	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
TPM	Infineon SLB9665 support TPM 2.0 (Optional)
Board	Mini ITX
Expansion	
Expansion	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	
USB	4 x USB 2.0 4 x USB 3.0
SATA	3 x SATA III, 1 x SATA III or 1 x mSATA III switch by BIOS selection
COM Port	5 x RS232 1 x RS232/422/485
DIO	1 x 8-bit GPIO
MIO	1 x PS/2 Keyboard or 1 x PS/2 Mouse
Other	Infineon SLB9665 support TPM 2.0 (Optional)
Display	
Chipset	Intel® 7th Generation CPU integrated VGA + HDMI + DP
Resolution	VGA: 2048 x 1536 @ 50Hz HDMI: 4096 x 2160 @ 24Hz DP: 4096 x 2304 @ 60Hz
LVDS	Dual channel 18/24-bits LVDS (Chrontel CH7511B eDP to LVDS)
Multiple Display	Dual Display
Audio	
Chipset	Realtek ALC892 HD Audio Decoding Controller
Audio Interface	Mic-in, Line-out, Line-in
Audio Amplifier	2 x 6W Amplifier
Ethernet	
Chipset	1 x Intel® I219LM Gigabit Ethernet PHY 1 x Intel® I211AT PCIe Gigabit Ethernet
LAN Port	2 x RJ-45
Mechanical & Environmental	
Power Requirement	+12V/+5V/5VSB/+3.3V/-12V
ACPI	Single power ATX Support S0, S3, S4, S5
Power Type	AT/ATX
Operating Temp	0~60°C (32~140°F)
Storage Temp	-40~ 75°C (-40~167°F)
Operating Humidity	0%~90% relative humidity, non-condensing
Dimension (L x W)	6.69" x 6.69" (170mm x 170mm)
Weight	0.40 kg

+ Ordering

EMX-H110KP-A1R
Intel® 7th Generation Core™ i7/ i5/ i3 Processor Mini ITX Motherboard with Intel® H110 Chipset