



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
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