

# MB-8307

Industrial Motherboard

AEWIN Technologies Co., Ltd.

Mini-ITX with 6<sup>th</sup> generation Intel® Core™ Skylake-S processor, Intel® Q170/H110 chipset, HDMI 1.4b / DP++ / LVDS, PCIe X16, PCIe x 1, 1 Mini-PCIe, 2 GLAN, 4 SATA, 6 COM, USB3.0, DC 12V input



## Features

- 6th generation Intel® Core™ Skylake-S processor
- Intel® Q170/H110 express chipset
- DDR4 / 2133MHz up to 16GB
- HDMI 1.4b, DP++ and 24-bit LVDS
- 2 x Intel® Giga LAN, 1 x Mini-PCIe
- 6 x COM, 8 x USB, LPC, SMBus
- 4 x SATA w/ RAID, HD Audio
- PCIe X16 & optional PCIe x1 slot
- DC 12V input



## System

<b>Form Factor</b>	Mini-ITX motherboard
<b>CPU</b>	Intel® Skylake LGA 1151 for i7/i5/i3, 65W/35W processor
<b>Chipset</b>	Intel® Q170 or H110 chipset
<b>Memory</b>	2 x 256-pin, DDR4 / 2133 MHz up to 16GB, ECC support
<b>BIOS</b>	AMI® SPI BIOS
<b>SSD</b>	1 x M.2 ( 60*22*35 mm / B+M Key type )
<b>Watchdog timer</b>	255 levels, 1 ~ 255 sec
<b>Expansion</b>	1 x PCI-Express 3.0 X16 slot 1 x optional PCI-Express X1 slot 1 x Full-size Mini-PCIe socket w/SIM slot. With PCIe X1 & USB signal. WWAN / WLAN LED
<b>Board Size</b>	170mm x 170mm
<b>Operating Temp.</b>	0°C~60°C (32°F~140°F)
<b>Storage Temp.</b>	-20°C~80°C (-4°F~176°F)
<b>Operating Hum.</b>	10%~90% (non-condensing)

## Display

<b>Chipset</b>	Intel® integrated
<b>Display Interface</b>	2 x external DP++ , 4096x2160 @ 60 Hz 1 x external HDMI 1.4b ( 4096x2160 @ 24 Hz ) 1 x internal 24-bit Dual Channel LVDS ( DP to LVDS / CH7511 )

## Power

<b>Power in</b>	DC 12V ( 4-pin or 8-pin connector )
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## I/O

<b>Serial Port</b>	External : 1 x RS232/422/485 ( COM2 ), 2 x RS232 Internal : 3 x RS232
<b>SATA</b>	4 x SATA 6Gb/s, w/ RAID 0/1/5/10
<b>USB</b>	External : 4 x USB3.0 Internal : 4 x USB2.0
<b>Ethernet</b>	1 x Intel® I211AT, 1 x Intel® I219LM Gigabit WOL and iAMT support
<b>Audio</b>	External : Line-in/out , Mic-in Internal : Line-out , Mic-In
<b>Digital I/O</b>	8-bit GPIO interface ( pitch : 2.0 )
<b>TPM</b>	Optional TPM via LPC pin header
<b>Others</b>	2 x 4-pin Fan header 1 x Front Panel header for power on/off, reset, HDD/power LED indicator 1 x LVDS Backlight/inverter pin-header

## Packing

- MB-8307A
- SATA cable
- COM port cable
- USB cable

## OS support

Windows	Windows 7 , Windows 8.1 , Windows 10
Linux	Fedora 15 , Ubuntu , Red Hat

\* Note:All specifications are subject to change without prior notice