

Intel® Skylake (6th) Core™ H-series Processor

HE-B72



Features

- Onboard Intel® 6th Gen Core™ H-series Processor
- 2 x DDR4 SO-DIMM 2133 MHz up to 32GB
- Integrated DVI, DisplayPort, CRT, LVDS for Triple display supports
- 1 x Intel® Gigabit PHY LAN, 1 x Intel® Gigabit LAN
- 1 x MiniPCie, 1 x Half Size MiniPCie
- 3 x SATA3, 4 x USB2.0, 4 x USB3.0, 6 x COM, 1 x LPC, 1 x GPIO, 1 x SIM Slot, 1 x PS/2
- Support 4K resolution, Watchdog Timer
- Standard 24-pin ATX power from Backplane

System

Processor	Intel® Skylake Core™ i7, i5, i3 H-series Processor, FCBGA1440 package
Chipset	Intel® QM170
Memory	2 x DDR4 SO-DIMM 2133 MHz up to 32GB, Support Non-ECC, unbuffered memory only
Watchdog Timer	Generates a system reset with internal timer for 1 min/s ~ 255 min/s
Real Time Clock	Chipset integrated RTC with onboard lithium battery
Expansion	1 x MiniPCie (support mSATA) 1 x Half Size MiniPCie 1 x Sim slot 1 x PCIE X16 slot 1 x PCIE X4 slot or 4 x PCIE X1 slot(Optional)

Graphics

Chipset	Intel® 9th Gen integrated HD Graphics
Display Interface	2 x DVI-D, 1 x DisplayPort, 1 x LVDS (Note1) 1 x VGA

LAN

Chip	1 x Intel® I219-LM Gigabit PHY LAN (Support iAMT11.0) 1 x Intel® I210-AT Gigabit LAN
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I/O

Serial ATA	3 x SATA3
Audio	Realtek ALC262 HD Audio
Internal I/O	3 x SATA3, 5 x RS232, 4 x USB2.0, 4 x USB3.0, 1 x LVDS, 1 x LCD inverter, 1 x LPC, 1 x GPIO, 1 x Audio, 1 x SMBUS, 1 x VGA, 2 x DVI-D, 1 x RS232/422/485,
Rear I/O	1 x DisplayPort, 2 x LAN, 1 x PS/2

Mechanical & Environmental

Power Requirement	Standard 24-pin ATX power from Backplane
Size	168mm x 126mm (L x W)
Temperature	Operating within 0°C~60°C (32°F~140°F) Storage within -20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90%, non-condensing

Ordering Code

HE-B7231	With i3-6100E, support LVDS, VGA, 2 x DVI-D, DP, 4 x PCIE X1
HE-B7251	With i5-6440EQ, support LVDS, VGA, 2 x DVI-D, DP, 4 x PCIE X1
HE-B7271	With i7-6820EQ, support LVDS, VGA, 2 x DVI-D, DP, 4 x PCIE X1
HE-B7234	Same as HE-B7231, with 1 x PCIE X4
HE-B7254	Same as HE-B7251, with 1 x PCIE X4
HE-B7274	Same as HE-B7271, with 1 x PCIE X4

Note1: Onboard 18/24-bit single/dual channel +3.3V/ +5V/ +12V LVDS