HE-B73 – Half-size PICMG 1.3

The HE-B73, designed for the 11th generation Intel® Core™ H-series processor platform, provides excellent CPU, graphics, media performance, flexibility, and enhanced security ideally suited to applications requiring multi-tasking capabilities, such as gaming, surveillance, medical, defense, transportation and industrial automation application.

SPECIFICATIONS

CPU	11th Gen Intel® Tiger Lake
CPU Socket	FCBGA1787
Memory Type	260-pin DDR4 3200 MHz SO-DIMM
Memory Slots	2
Maximum Memory Supported	64GB
Chipset	QM580E / RM590E (TGL-H Xeon CPUs have to use RM590E)
Integrated Graphics	Intel® UHD Graphics
Watchdog Timer	1 ~ 255 min/sec intervals, generates system reset
Serial ATA (SATA)	2 x SATA III
Video	1 x DVI (see Note), 1 x VGA, 1 x LVDS (see Note) & 1 x DP (see Note)
LAN Ports	1 x Intel® I219-LM Gigabit LAN (Support Intel® AMT 15.0), 1 x Intel® I225-LM Gigabit LAN (Up to 2.5GbE)
GPIO Interface	1 x GPIO
Extended Interface	1 x Mini-PCIe/mSATA, 1 x M.2 2230 E-Key, 1 x M.2 2280 M-Key PCIe Gen 4
Expansion Interface	1 x PCIe X16 slot via backplane, 1 x PCIe X4 or 4 x PCIe X1 via backplane (see ordering options)
Internal I/O	2 x SATA3, 4 x RS232, 2 x RS232/RS422/RS485, 1 x SMBus, 2 x USB 3.2 (Type E), 4 x USB 2.0, 1 x LVDS, 1 x LCD inverter connector
Rear I/O	2 x LAN, 1 x DisplayPort and 1 x PS/2
Audio	Realtek ALC888S HD Audio
Power Requirement	24-pin ATX power from Backplane
Dimensions	168 mm x 126 mm
Operating Temperature	0 ~ 60˚C (32 ~ 140˚F) (Wide Temp Version option is -40 ~ 85˚C)
Storage Temperature	-20 ~ 80 °C (-4 ~ 176 °F)

Relative Humidity	10 ~ 90% (non-condensing)
OS Software Supported	Windows 10 64bit
Global P/N / SKU	3308586

ORDERING OPTIONS

HE-B7371 - With Core™ i7-11850HE, QM580E, Cooler fan, DVI, DP, LVDS, VGA, 4 x PCIe X1 HE-B7374 - Same as HE-B7371, with 1 x PCIe X4 M2-3502 - M2 2280 M-Key supporting 2 x Gigabit LAN M2-3504 - M2 2280 M-Key supporting 4 x Gigabit LAN HE-B7351- With Core™ i5-11500HE, QM580E, Cooler fan, DVI, DP, LVDS, VGA, 4 x PCIe X1 HE-B7331 - With Core™ i3-11100HE, QM580E, Cooler fan, DVI, DP, LVDS, VGA, 4 x PCIe X1 HE-B73C1 - With Celeron® 6600HE, QM580E, Cooler fan, DVI, DP, LVDS, VGA, 4 x PCIe X1 HE-B73W7R1 - With Xeon® W-11865MRE, RM590E, Cooler fan, DVI, DP, LVDS, VGA, 4 x PCIe X1 Other Xeon Processors Options and Boards with 1 x PCIe X4 instead are available. Please ask Sales Rep for further assistance. **Note1 (LVDS):** Onboard 18/24-bit single/dual channel +3.3V/ +5V/ +12V LVDS **Note2 (Additional VGA or 2nd LVDS):** Add ADP-3355 supports 2nd VGA or Add ADP-3460 supports 2nd LVDS, please contact with our sales for OEM version **Note3:** W-11865MRE, W-11555MRE, W-11155MRE can operate within -40°C ~ 85°C **Note4:** If you want to use other Tiger Lake /11th Gen H Processor , please ask Sales Rep for further assistance. **Note5 (DVI):** DVI Cable is optional.