

Industrial Single Board Computer

PICMG 1.3 Half-size CPU Card

HE-B71

Support 4th Generation Intel® Core™ i7, Core™ i5, Core™ i3 and Celeron CPU with DDR3L SO-DIMM, CRT, DisplayPort, DVI, LVDS, Gigabit LAN, USB3.0, USB2.0, PCIe mini card, Serial ATA3, mSATA, HD Audio



Form Factor	PICMG 1.3 Half-size CPU Card
CPU	4 th Generation Intel® Core™ i7, Core™ i5, Core™ i3, Celeron® Mobile Processor Package type: FCBGA1364
Memory	2 x DDR3L SO-DIMM 1333/1600 MHz up to 16GB Support Non-ECC, unbuffered memory only
Chipset	Intel® DH82QM87 PCH
Real Time Clock	Chipset integrated RTC with onboard lithium battery
Watchdog Timer	Generates a system reset with internal timer for 1min/s ~ 255min/s
Power Management	Support ACPI 4.0 compliant
Serial ATA Interface	4 x serial ATA3 interface with 600MB/s transfer rate (Only for SATA3) Support RAID 0, 1, 5, 10 and Intel Rapid Storage Technology
Display Interface	Intel® 4th Generation Core mobile processor integrated HD Graphics 4600 1 x CRT (Onboard 2x8 pin-header) 1 x DVI (Onboard 20-bit connector) 1 x DisplayPort (Rear I/O Port) 1 x LVDS (Onboard 24-bit dual channel connector with +3.3/+5/+12V supply)
Audio Interface	Realtek ALC888 HD Audio
LAN Interface	1 x Intel® I210-AT Gigabit LAN 1 x Intel® I217-LM Gigabit LAN (Support iAMT9.0)
GPIO Interface	Onboard programmable 12 pin-header, 8-bit Digital I/O interface
Extended Interface	PICMG 1.3 Half-size Interface Support 1 PCI-Express x16 · 1 x PCIe x4 or 4 x PCIe x1, 1 x Mini PCIe slot (Optional support mSATA (Only for SATA3))
Internal I/O Port	1 x RS232/422/485, 5 x RS232, 1 x SMBUS, 1 x GPIO, 4 x USB3.0, 2 x USB2.0, 1 x IrDA, 1 x CRT, 1 x DVI, 1 x LPC, 1 x LVDS, 1 x LCD inverter, 4 x Serial ATA3 and 1 x Front panel Audio
External I/O Port	2 x LAN, 1 x DisplayPort and 1 x PS/2
Power Requirement	Standard 24-pin ATX Power from Backplane
Dimension	168mm x 126mm
Temperature	Operating within 0~60 centigrade Storage within -20~85 centigrade

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Stage For Your Success

Ordering Code	
HE-B7117L1	i7-4700EQ Mobile Processor , Onboard CRT, LVDS, DVI, DisplayPort, SATA3, USB2.0, USB3.0, HD Audio ,LAN , SMBUS, LPC, SIM, GPIO, IrDA, PS/2, PCIe mini card, mSATA, Support 4 x PCIe x1.
HE-B7117L4	i7-4700EQ Mobile Processor , Onboard CRT, LVDS, DVI, DisplayPort, SATA3, USB2.0, USB3.0, HD Audio ,LAN , SMBUS, LPC, SIM, GPIO, IrDA, PS/2, PCIe mini card, mSATA, Support 1 x PCIe x4.
HE-B7117Q1	i5-4402E Mobile Processor , Onboard CRT, LVDS, DVI, DisplayPort, SATA3, USB2.0, USB3.0, HD Audio ,LAN , SMBUS, LPC, SIM, GPIO, IrDA, PS/2, PCIe mini card, mSATA, Support 4 x PCIe x1.
HE-B7117Q4	i5-4402E Mobile Processorr , Onboard CRT, LVDS, DVI, DisplayPort, SATA3, USB2.0, USB3.0, HD Audio ,LAN , SMBUS, LPC, SIM, GPIO, IrDA, PS/2, PCIe mini card, mSATA, Support 1 x PCIe x4.
HE-B7117R1	i3-4102E Mobile Processor , Onboard CRT, LVDS, DVI, DisplayPort, SATA3, USB2.0, USB3.0, HD Audio ,LAN , SMBUS, LPC, SIM, GPIO, IrDA, PS/2, PCIe mini card, mSATA, Support 4 x PCIe x1.
HE-B7117R4	i3-4102E Mobile Processor , Onboard CRT, LVDS, DVI, DisplayPort, SATA3, USB2.0, USB3.0, HD Audio ,LAN , SMBUS, LPC, SIM, GPIO, IrDA, PS/2, PCIe mini card, mSATA, Support 1 x PCIe x4.
HE-B7117P1	Celeron 2002E Mobile Processor , Onboard CRT, LVDS, DVI, DisplayPort, SATA3, USB2.0, USB3.0, HD Audio ,LAN , SMBUS, LPC, SIM, GPIO, IrDA, PS/2, PCIe mini card, mSATA, Support 4 x PCIe x1.
HE-B7117P4	Celeron 2002E Mobile Processor , Onboard CRT, LVDS, DVI, DisplayPort, SATA3, USB2.0, USB3.0, HD Audio ,LAN , SMBUS, LPC, SIM, GPIO, IrDA, PS/2, PCIe mini card, mSATA, Support 1 x PCIe x4.