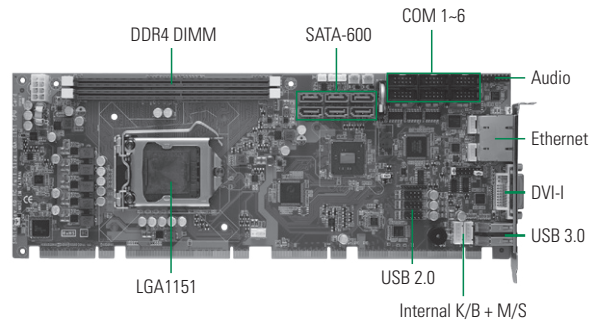


SHB140 NEW

PICMG 1.3 Full-size CPU Card with LGA1151 6th/7th Gen Intel® Core™, Intel® Q170/H110, SATA3, USB 3.0, LAN and DVI-I

Features

- LGA1151 6th/7th gen Intel® Core™ processor
- Intel® Q170/H110 chipset
- 2 DDR4-2133 un-buffered DIMM, up to 32GB
- Intel® AMT 11 (Q170) & optional TPM supported (Q170)
- PCIe Gen. 3 at 8GT/s supported
- 8 USB 2.0 and 2 USB 3.0 ports (Q170)
- 6 SATA-600 with RAID 0/1/5/10 (Q170)



Core System

CPU	LGA1151 socket 6th/7th generation Intel® Core™ processor, TDP up to 65W vPro supported
System Memory	2 x 288-pin DDR4-2133 un-buffered DIMM, up to 32GB
Chipset	Intel® Q170/H110
BIOS	AMI UEFI BIOS with OA 3.0 built
SSD	N/A
Watchdog Timer	225 levels, 1 ~ 255 sec.
Expansion Interface	Edge Connector A: 1 x PCIe x16 Gen. 3 Edge Connector B: 1 x PCIe x4 or 4 x PCIe x1 Gen. 2 4 x 32-bit PCI bus masters
Battery	Lithium 3V/220 mAh
Power Requirements	Intel® Core™ i7-6700, 8GB DDR4-2133 x 2 +5V @ 1.38A, +12V @ 2.13A, +5VSB @ 0.72A, +3.3V @ 0.54A
Size	338 x 126 mm
Board Thickness	1.6 mm
Temperature	0°C ~ +60°C (+32°F ~ +140°F), operation
Operation Humidity	10% ~ 95% relative humidity, non-condensing

I/O

MIO	1 x PS/2 keyboard and mouse 5 x RS-232 (COM 2 ~ 6) 1 x RS-232/422/485 (COM 1), mode selection by SW 2 x Smart fan for system Fan 1/Fan 2
RIO	2 x RJ-45, 1 x DVI-I, 2 x USB 3.0
SATA	Q170: 6 x SATA-600, support RAID 0/1/5/10 H110: 4 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1st port as 10/100/1000 Mbps supports WOL, RPL/PXE Boot ROM with Intel® i219LM (AMT 11 supported) 2nd port as 10/100/1000 Mbps supports WOL, RPL/PXE Boot ROM with Intel® i211AT
Audio	1 x HD Codec audio as MIC-in/Line-in/Line-out/Speaker-out with audio kit AX93242 (optional)
USB	Q170: 10 x USB 2.0 (6 port on board, 4 port on SHB connector-C golden fingers) H110: 8 x USB 2.0 (4 port on board, 4 port on SHB connector-C golden fingers)
SMBus	N/A
TPM	Infineon SLB9635 for trusted platform (optional)

Display

Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x DVI-I

Packing List

Standard		
Quick installation guide, user's manual/utility CD, cable		
Cable		
Part Number	Description	Qty
593826A0000E	SATA signal cable, 500 mm	1

Ordering Information

Standard	
SHB140DGGA (P/N: E38C140101)	PICMG 1.3 full-size CPU card with LGA1151 socket and Q170, DVI-I, 2 GbE LANs and audio, PCIe x1
SHB140DGGA (P/N: E38C140102)	PICMG 1.3 full-size CPU card with LGA1151 socket and Q170, DVI-I, 2 GbE LANs and audio, PCIe x4
SHB140DGGA (P/N: E38C140100)	PICMG 1.3 full-size CPU card with LGA1151 socket and H110, DVI-I, 2 GbE LANs and audio, PCIe x1
SHB140DGGA (P/N: E38C140104)	PICMG 1.3 full-size CPU card with LGA1151 socket and H110, DVI-I, 2 GbE LANs and audio, PCIe x4
Optional	
E9B900C000	LGA1156 cooler 4-pin, H= 61.4 mm
50761222000E	LGA1156 2U cooler 3-pin, H= 68.8 mm
5938A808010E	2 x USB 2.0 cable w/ bracket, P=2.54 mm, L=190 mm
59380000290E	PS/2 keyboard & mouse cable with bracket
593836A0030E	4-pin power cable to SATA x 2, L=150 mm
E933242100	AX93242-RC HD audio converter kit
5948C122800E	2 x USB 3.0 cable w/ bracket 20P, L=400 mm
59380703000E	COM port cable x 2 w/ bracket, P=2.54, L=300 mm (RC)
594826A0010E	DVI-I to DVI-D+VGA Y cable

