SHB150

PICMG 1.3 Full-size CPU Card with LGA1151 8th Gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® Processor, Intel® C246/Q370/H310, SATA 3.0, USB 3.1 Gen1/Gen2, Dual LAN and DVI-I

Features

- LGA1151 8th gen Intel® Core™ i7/i5/i3, Xeon® E (C246), Pentium® or Celeron® processor (up to 95W)
- Intel® C246/Q370/H310 chipset
- 2 DDR4-2666/2400 Long-DIMM for up to 32GB of memory
- Supports Intel® AMT and vPro (C246/Q370)
- TPM 2.0 supported (optional)
- Supports M.2 Key M (C246/Q370)

Core System

- CPU: LGA1151 8th gen Intel® Core™ i7/i5/i3, Xeon® E (C246), Pentium® or Celeron® processor (up to 95W)
- System Memory: 2 x 288-pin DDR4-2666/2400 un-buffered ECC Long-DIMM, up to 32GB (C246)
- Chipset: Intel® C246/Q370 (Intel® vPro supported)
- BIOS: AMI UEFI BIOS
- SSD: M.2 Key M 2280, PCIe x4 signal (C246, Q370)
- Watchdog Timer: 225 levels, 1 to 255 sec.
- Expansion Interface: 1 x PCIe x16 Gen3, 1 x PCIe x4 or 4 x PCIe x1 Gen3, 4 x 32-bit PCI bus masters
- Battery: Lithium 3V/220 mAh
- Power Requirements: TBC
- Dimensions: 338 x 126 mm
- Board Thickness: 1.6 mm
- Operating Temperature: 0°C to +60°C (+32°F to +140°F)
- Humidity: 10% to 95% relative humidity, non-condensing

I/O

- SATA: 2 x 25-pin SATA-600, support RAID 0/1/5/10
- H310: 4 x SATA-600
- Hardware Monitoring: Detect CPU/system temperature, voltage and fan speed
- Ethernet: 1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM, supports Wake-on-LAN, RPL/PXE Boot ROM, AMT
- Supports Wake-on-LAN, RPL/PXE Boot ROM
- Audio: HD Codec audio as MIC-in/Lin-in/Line-out/Speaker-out with audio kit AX93242 (optional)
- USB: C246/Q370: 2 x USB 3.1 Gen1, 4 x USB 3.1 Gen1 & 6 x USB 2.0 (2 ports on board, 4 ports on SHB connector-C golden fingers)
- H310: 4 x USB 3.1 Gen1 & 6 x USB 2.0 (2 ports on board, 4 ports on SHB connector-C golden fingers)
- Serial: 2 x RS-232, 2 x RS-232/422/485, mode selection by SW
- PS/2 Combo Port: 1 x PS/2 keyboard internal connector, 1 x PS/2 mouse internal connector
- TPM: TPM 2.0 module (optional)
- SMBus: N/A
- Others: 1 x LPT, 1 x Smart CPU fan, 1 x Smart system fan

Display

- Graphic: Intel® HD Graphic
- Memory Size: Share system memory
- Display Interface: 1 x DVI-I, 1 x DisplayPort (internal header)

Packaging List

Standard

- User’s manual/utility CD

Ordering Information

Standard

SHB150DGG-Q370 (P/N: E38C150103)
PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® Q370, DVI-I, 2 GbE LAN, and PCIe x1 BIOS

SHB150DGG-Q370 (P/N: E38C150100)
PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® Q370, DVI-I, 2 GbE LAN, and PCIe x4 BIOS

SHB150DGG-C246 (P/N: E38C150104)
PICMG 1.3 full-size CPU card with LGA1151 socket, Intel®C246, DVI-I, 2 GbE LAN, and PCIe x4 BIOS

SHB150DGG-H310 (P/N: E38C150105)
PICMG 1.3 full-size CPU card with LGA1151 socket, Intel®H310, DVI-I, 2 GbE LAN, and PCIe x1 BIOS

SHB150DGG-H310 (P/N: E38C150102)
PICMG 1.3 full-size CPU card with LGA1151 socket, Intel®H310, DVI-I, 2 GbE LAN, and PCIe x4 BIOS

Optional

- 5938A08B010E 2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
- 5948C122000E 2 x USB 3.1 (Gen1) cable with bracket, L=400 mm
- 59401502800E 2 x USB 3.1 (Gen2) cable with bracket, L=400 mm
- 5938000290E PS/2 keyboard & mouse cable with bracket
- 59362A50000E SATA signal cable/Red, L=500mm
- E393242100 AX93242-RC H3 audio converter kit
- 59380402060E 1 x COM port cable with bracket, P=2.54 mm, L=300 mm
- 59380703000E 2 x COM port cable with bracket, P=2.54 mm, L=300 mm
- 594B6A0101E DVI-I to DVI-D/VGA Y cable
- 83935151000E TPM 2.0 module (AX9351)
- 83987091000E DisplayPort kit