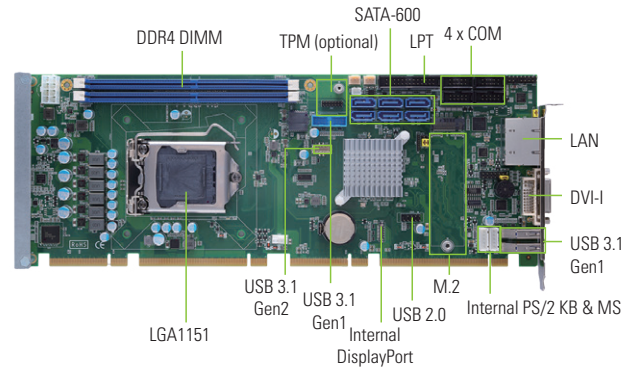


# SHB150 NEW

PICMG 1.3 Full-size CPU Card with LGA1151 8th Gen Intel® Core™ Processor, Intel® C246/Q370/H310, SATA3, USB 3.1 Gen1/Gen2, Dual LANs and DVI-I

## Features

- LGA1151 8th gen Intel® Core™ processor (Coffee Lake)
- 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 socket 8th gen Intel® Core™ processor
System Memory	2 x 288-pin DDR4-2666/2400 un-buffered ECC long-DIMM, up to 32GB (C246) 2 x 288-pin DDR4-2666/2400 un-buffered long-DIMM, up to 32GB (Q370/H310)
Chipset	Intel® C246/Q370/H310
BIOS	AMI
SSD	M.2 Key M 2280, PCIe x4 signal (C246, Q370)
Watchdog Timer	225 levels, 1 to 255 sec.
Expansion Interface	Edge Connector A: 1 x PCIe x16 Gen3 Edge Connector B: 1 x PCIe x4 or 4 x PCIe x1 Gen3 Edge Connector D: 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	C246/Q370: 6 x 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 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, RPL/PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out/Speaker-out with audio kit AX93242 (optional)
USB	C246/Q370: 2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1 & 6 x USB 2.0 (2 ports onboard, 4 ports on SHB connector-C golden fingers) H310: 4 x USB 3.1 Gen1 & 6 x USB 2.0 (2 ports onboard, 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 fan for system Fan1/Fan2

### 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

### Ordering Information

#### Standard

SHB150DGG-Q370	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® Q370, DVI-I, 2 GbE LANs, and PCIe x1
SHB150DGG-Q370	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® Q370, DVI-I, 2 GbE LANs, and PCIe x4

#### Optional

5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
5948C122800E	2 x USB 3.1 (Gen1) cable with bracket, L=400 mm
59380000290E	PS/2 keyboard & mouse cable with bracket
593826A0000E	SATA signal cable/red, L=500mm
E93242100	AX93242-RC HD audio converter kit
59380402010E	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
594826A0010E	DVI-I to DVI-D+VGA Y cable
83935151000E	TPM 2.0 module (AX93515)