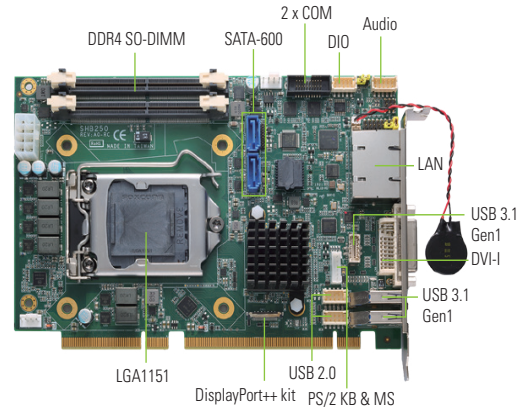


# SHB250R NEW

PICMG 1.3 Half-size CPU Card with LGA1151 9<sup>th</sup>/8<sup>th</sup> Gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® Processor, Intel® C246/Q370/H310, SATA 3.0, USB 3.1 Gen1, LAN and DVI-I

## Features

- LGA1151 9<sup>th</sup>/8<sup>th</sup> gen Intel® Core™ i7/i5/i3, Xeon® E (C246), Pentium® or Celeron® processor
- Intel® C246/Q370/H310 chipset
- 2 DDR4-2666/2400 SO-DIMM for up to 64GB of memory
- Supports M.2 slot
- Supports Intel® AMT and vPro (C246/Q370)
- TPM 2.0 supported



### Core System

CPU	LGA1151 9 <sup>th</sup> /8 <sup>th</sup> gen Intel® Core™ i7/i5/i3, Xeon® E (C246), Pentium® or Celeron® processor (8th up to 95W, 9th up to 35W)
System Memory	2 x 260-pin 2666/2400 with ECC un-buffered SO-DIMM, up to 64GB (C246) 2 x 260-pin 2666/2400 un-buffered SO-DIMM, up to 64GB (Q370/H310)
Chipset	Intel® C246/Q370 (Intel® vPro supported) Intel® H310
BIOS	AMI UEFI BIOS
Storage	M.2 Key M 2242 (Q370/C246 support PCIe 3.0 x4 or SATA-3, H310 supports SATA-3)
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
Battery	Lithium 3V/220 mAh
Power Requirements	TBC
Dimensions	185 x 126 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to 60°C (32°F to 140°F) depending on CPU speed and system thermal solution
Humidity	10% to 95% relative humidity, non-condensing

### I/O

SATA	C246/Q370: 2 x SATA-600, support RAID 0/1/5/10 H310: 2 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 Realtek ALC662
USB	4 x USB 3.1 Gen1 (2 ports in I/O, 2 ports in internal box header) 4 x USB 2.0
Serial	2 x RS-232/422/485, mode selection by SW
PS/2 Combo Port	1 x PS/2 keyboard & mouse internal connector
TPM	TPM 2.0
DIO	8 channel programmable
Others	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)

### Packing List

<b>Standard</b>	
CPU card	

### Ordering Information

<b>Standard</b>	
SHB250RDGG-Q370 (P/N: E38C250100)	PICMG 1.3 half-size CPU card with LGA1151 socket, Intel® Q370, DVI-I, 2 GbE LAN, audio and PCIe x4
SHB250RDGG-H310 (P/N: E38C250102)	PICMG 1.3 half-size CPU card with LGA1151 socket, Intel® H310, DVI-I, 2GbE LAN, audio and PCIe x4
SHB250RDGG-C246 (P/N: E38C250101)	PICMG 1.3 half-size CPU card with LGA1151 socket, Intel® C246, DVI-I, 2GbE LAN, audio and PCIe x4

<b>Optional</b>	
59380000300E	2 x COM port, with bracket, P=1.27 X 2.54, L=300 mm
59401502800E	1 x USB 3.1 Gen2 cable with bracket 20P, L=400 mm
59382631000E	2 x USB 2.0 cable with bracket 180 mm
594C2302500E	PS/2 keyboard & mouse cable
593826A0000E	SATA signal cable/red, L=500mm
594826A0010E	DVI-I to DVI-D+VGA Y cable
83987091000E	DisplayPort++ kit

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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