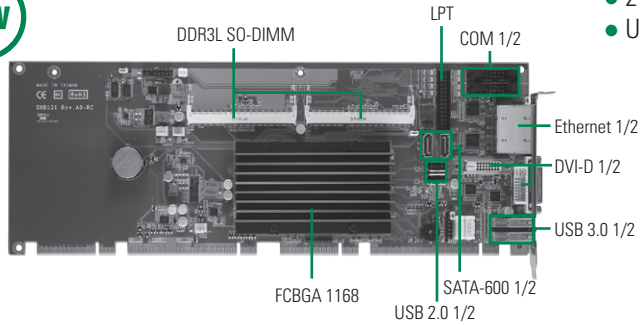


# SHB131

PICMG 1.3 Full-size CPU Card with 4th Generation Intel® Core™ i7/i5 & Celeron® U-series Processors, SATA3, USB 3.0, LAN and Dual DVI-D



## System

CPU	4th generation Intel® Core™ i7/i5 & Celeron® U-series processors, TDP up to 15W
System Memory	2 x 204-pin DDR3L-1600 SO-DIMM max. up to 16 GB
Chipset	SoC integrated
BIOS	AMI UEFI BIOS with OA 3.0 built
SSD	N/A
Watchdog Timer	225 levels, 1~255 sec.
Expansion Interface	Edge Connector A & B: 1 x PCIe x4 or 4 x PCIe x1, Gen. 2 Edge Connector C: 4 x USB 2.0
Battery	Lithium 3V/220 mAh
Power Requirements	TBD
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 & mouse 1 x LPT; with SPP/EPP/ECP supported 2 x RS-232 (COM 1/2) 2 x USB 2.0 2 x fan for system Fan 1/Fan 2 1x DVI-D
RIO	2 x RJ-45 1 x DVI-D 2 x USB 3.0
SATA	2 x SATA 6Gbps with RAID 0/1 (Intel® Core™) 2 x SATA 6Gbps (Intel® Celeron®)
Hardware Monitoring	Detect CPU/System temperature, voltage and fan speed
Ethernet	2 ports as 10/100/1000 Mbps support 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	6 x USB 2.0 and 2 x USB 3.0
SMBus	N/A
TPM	N/A

## Features

- 4th generation Intel® U-series processors
- 2 DDR3L-1600 SO-DIMM max. up to 16 GB
- 2 DVI-D with dual view supported
- 2 SATA-600 with RAID 0/1
- USB 3.0 supported

## Display

Chipset	Intel® HD Graphics
Memory Size	TBD
Display Interface	2 x DVI-D

## Packing List

### Standard

Quick installation guide, user's manual/utility CD, cable

### Cable

Part Number	Description	Qty
59380502000E	COM+Print cable w/bracket	1
593826A0000E	SATA signal cable 500 mm	1

## Ordering Information

### Standard

SHB131DGGA-i7-4650U	4th generation Intel® Core™ i7-4650U processor PICMG 1.3 full-size CPU card with DVI-D, 2 GbE LANs and audio (P/N: TBD)
SHB131DGGA-i5-4300U	4th generation Intel® Core™ i5-4300U processor PICMG 1.3 full-size CPU card with DVI-D, 2 GbE LANs and audio (P/N: TBD)
SHB131DGGA-Celeron-2980U	4th generation Intel® Celeron® 2980U processor PICMG 1.3 full-size CPU card with DVI-D, 2 GbE LANs and audio (P/N: TBD)