SHB131

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

Features

- 4th gen Intel® Core™ i7/i5 & Celeron® U-series processors
- 2 DDR3L-1600 SO-DIMM for up to 16GB of memory
- 2 DVI-D with dual-view supported
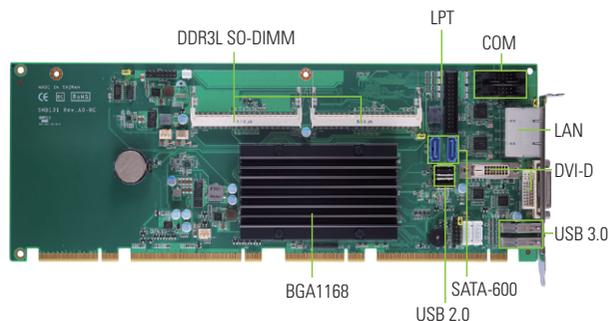- 2 SATA-600 with RAID 0/1
- USB 3.0 supported

Core System

CPU	4th generation Intel® Core™ i7/i5 & Celeron® U-series processor, TDP up to 15W
System Memory	2 x 204-pin DDR3L-1600 SO-DIMM, up to 16GB
Chipset	SoC integrated
BIOS	AMI UEFI BIOS with OA 3.0 built
SSD	N/A
Watchdog Timer	225 levels, 1 to 255 sec.
Expansion Interface	Edge Connector A & B: 1 x PCIe x4 or 4 x PCIe x1 Gen2 Edge Connector C: 4 x USB 2.0
Battery	Lithium 3V/220 mAH
Power Requirements	Intel® Core™ i7-4650U, 8GB DDR3L-1600 x 2 +5V @ 1.2A, +12V @ 1.7A, +3.3V @0.2A
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 SATA-600; support RAID 0/1 (Intel® Core™) 2 x SATA-600 (Intel® Celeron®)
Hardware Monitoring	Detect CPU/System temperature, voltage and fan speed
Ethernet	2 x 10/100/1000 Mbps Ethernet with Intel® i211AT; 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	2 x USB 3.0 6 x USB 2.0
Serial	2 x RS-232
PS/2 Combo Port	1 x PS/2 keyboard internal connector 1 x PS/2 mouse internal connector
TPM	N/A
SMBus	N/A
Others	1 x LPT with SPP/EPP/ECP supported 2 x Smart fan for system Fan1/Fan2

Display

Chipset	Intel® HD Graphics
Memory Size	Intel® DVMT 5.0
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 (P/N: E38C131100)	PICMG 1.3 full-size CPU card with Intel® Core™ i7-4650U processor, DVI-D, 2 GbE LANs and audio
SHB131DGGA-i5-4300U (P/N: E38C131101)	PICMG 1.3 full-size CPU card with Intel® Core™ i5-4300U processor, DVI-D, 2 GbE LANs and audio
SHB131DGGA-Celeron-2980U (P/N: E38C131102)	PICMG 1.3 full-size CPU card with Intel® Celeron® 2980U processor, DVI-D, 2 GbE LANs and audio