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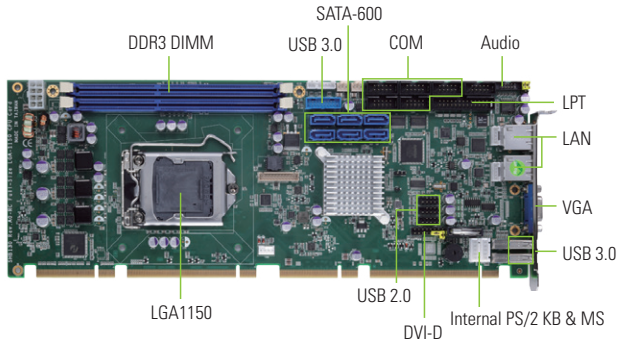
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# SHB130

PICMG 1.3 Full-size CPU Card with LGA1150 4th Gen Intel® Core™ i7/i5/i3 Processor, Intel® Q87, SATA3, USB 3.0, DVI-D, VGA, DisplayPort and Dual LANs

## Features

- LGA1150 socket 4th gen Intel® Core™ i7/i5/i3 processor (Haswell/Haswell Refresh)
- Intel® Q87 chipset
- 2 DDR3-1333/1600 DIMM for up to 16GB of memory
- Intel® AMT 9.0 & TPM supported (optional)
- PCIe Gen3 at 8GT/s supported
- DVI-D, VGA, DisplayPort (optional) with dual-view supported
- 6 SATA-600 with RAID 0/1/5/10
- USB 3.0 supported







### Core System

| | |
|---|---|
| CPU | LGA1150 socket 4th gen Intel® Core™ i7/i5/i3 processor (Haswell/Haswell Refresh), TDP up to 65W |
| System Memory | 2 x 240-pin DDR3-1333/1600 DIMM, up to 16GB |
| Chipset | Intel® Q87 |
| 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: 1 x PCIe x16 Gen3<br>Edge Connector B: 1 x PCIe x4 or 4 x PCIe x1 Gen2<br>4 x 32-bit PCI bus masters |
| Battery | Lithium 3V/220 mAH |
| Power Requirements | Intel® Core™ i7-4770S<br>+5V @ 2.26A, +12V @ 4.68A, +5VSB @ 0.2A, +3.3V @ 2.3A |
| 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 | 6 x SATA-600; support RAID 0/1/5/10 |
| Hardware Monitoring | Detect CPU/system temperature, voltage and fan speed |
| Ethernet | 1 x 10/100/1000 Mbps Ethernet with Intel® i217-LM; supports Wake-on-LAN, RPL/PXE Boot ROM, AMT 9.0<br>1 x 10/100/1000 Mbps Ethernet with Intel® i210-AT; supports Wake-on-LAN, RPL/PXE Boot ROM |
| Audio | HD Codec audio as Mic-in/Line-in/Line-out/Speaker-out with ALC662 |
| USB | 10 x USB 2.0<br>4 x USB 3.0 |
| Serial | 4 x RS-232<br>1 x RS-232/422/485, mode selection by SW |
| PS/2 Combo Port | 1 x PS/2 keyboard & mouse |
| TPM | Infineon SLB9635 for trusted platform(optional) |
| SMBus | N/A |
| Others | 1 x LPT with SPP/EPP/ECP supported<br>2 x Smart fan for system Fan1/Fan2<br>1 x DIO (4-in & 4-out) |

### Display

| | |
|---|---|
| Chipset | Intel® HD Graphics |
| Memory Size | Intel® DVMT 5.0 |
| Display Interface | 1 x VGA (default)<br>1 x DVI-D (header)<br>1 x DisplayPort (optional) |

### 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**

| | |
|---|---|
| SHB130VGGA (P/N: E38C130101) | PICMG1.3 full-size CPU card with LGA1150 socket, Intel® Q87, VGA, DVI-D, 2 GbE LANs, audio and PCIe x4 |
| SHB130PGGA (P/N: E38C130105) | PICMG1.3 full-size CPU card with LGA1150 socket, Intel® Q87, DisplayPort, DVI-D, 2 GbE LANs, audio and PCIe x1 |
| SHB130VGGA (P/N: E38C130102) | PICMG1.3 full-size CPU card with LGA1150 socket, Intel® Q87, VGA, DVI-D, 2 GbE LANs, audio and PCIe x1 |

**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 |
| 59384500100E | Audio cable with bracket, P=2.0 mm, L=450 mm |
| 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 |
| 594C1093500E | DVI cable 24-pin header to DVI-D, L=30 mm |
| 71193221200E | DVI bracket |



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