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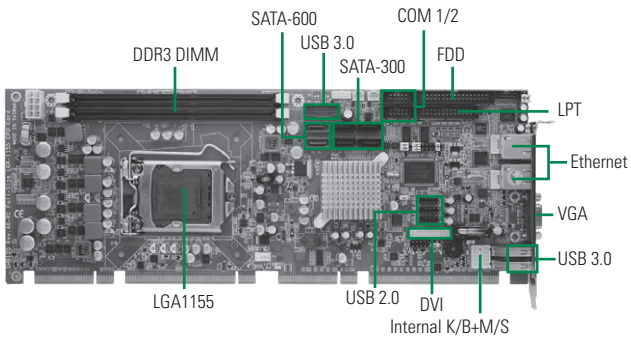
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SHB120

LGA1155 Intel® Core™ i7/ i5/ i3 PICMG 1. 3 Full-size CPU Card with Intel® Q77 PCH, SATA3, USB 3.0, VGA/DVI and Dual LANs



DDR3 USB 3.0

Features

- LGA1155 for 3rd Generation Intel® Core™ i7/ i5/ i3 processors (Ivy Bridge)
- Intel® Q77 PCH
- 2 DDR3 DIMM supports up to 16 GB memory
- Intel® iAMT 8.0 & TPM (optional) supported
- PCIe Gen. 3 at 8GT/s supported
- USB 3.0 supported
- DVI and VGA for dual displays

System

CPU	LGA1155 for 3rd Generation Intel® Core™ i7/ i5/ i3 processors (Ivy Bridge)
System Memory	2 x 240-pin DDR3 1333/1600 DIMM max. up to 16 GB
Chipset	Intel® Q77
BIOS	AMI
SSD	N/A
Watchdog Timer	225 levels, 1~255 sec.
Expansion Interface	1 x PCIe x16 (or 2 x PCIe x8), Gen. 3 1 x PCIe x4 (or 4 PCIe x1), Gen. 2 4 x 32 bit PCI bus masters LPC interface
Battery	Lithium 3v/220 mAH
Power Requirements	Intel® Core™ i7-2700K +5V @ 2.1A, +12V @ 8A, +5VSb @ 0.1A, +3.3V @ 2.3A
Size	338 x 122 mm
Board Thickness	1.6 mm
Temperature	0° ~ +60°C (32°F ~ 140°F), operation
Operation Humidity	10% ~ 95% relative humidity, non-condensing

I/O

MIO	1 x FDD 1 x PS/2 keyboard 1 x PS/2 mouse 1 x LPT; with SPP/EPP/ECP supported 1 x RS-232 (COM 2) 1 x RS-232/422/425 (COM 1) 1 x DVI-D 6 x USB 2.0 port 2 x USB 3.0 port
RIO	2 x RJ45, VGA, 2 x USB 3.0
SATA	2 x SATA 6Gbps & 4 x SATA 3Gbps,with RAID 0/1/5/10
Hardware Monitoring	Detect CPU/System temperature, voltage and fan speed
Ethernet	1st ports as 10/100/1000Mbps supports WOL, RPL/PXE Boot ROM with Intel® 82574L 2nd port as 10/100/1000Mbps support WOL, RPL/PXE Boot ROM with Intel® 82579LM
Audio	1 x HD Codec audio as MIC-in/Line-in/Line-out/ speaker-out with ALC662
USB	10 x USB 2.0, 4 x USB 3.0
SMBus	N/A
TPM	Infineon SLB9635 for trusted platform (optional)

Display

Chipset	Intel® HD Graphics
Memory Size	Max. up to 352MB frame buffer dedicated memory
Display Interface	1 x VGA (default) 1 x DVI-D (header) 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 500mm	1

Ordering Information

Standard

SHB120VGGA (P/N: E38C120100)	LGA1155 socket H2 PICMG1.3 full-size CPU card with VGA, 2 10/100/1000Mbps Ethernet and audio
SHB120PGGA (P/N: E38C120101)	LGA1155 socket H2 PICMG1.3 full-size CPU card with DisplayPort, 2 10/100/1000Mbps Ethernet and audio

Optional

E9B900C000	LGA1156 cooler 4-pin H:61.4mm
50761222000E	LGA1156 2U cooler 3-pin H:68.8mm
5938A808010E	2 x USB port cable, L=190mm
59380000290E	PS/2 keyboard & mouse cable with bracket
593826A0000E	SATA signal cable 500mm
593836A0030E	4 pin power cable to SATA x 2, L=150mm
594C1093500E	DVI cable 24-pin header to DVI-D, L=30cm
71193221200E	DVI bracket

* All specifications and photos are subject to change without notice.

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