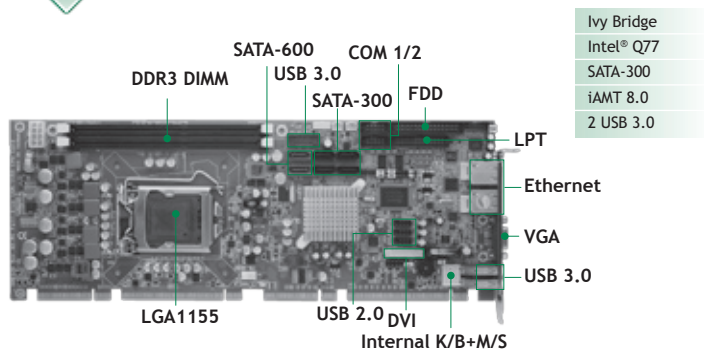


SHB120

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



Ivy Bridge
Intel® Q77
SATA-300
iAMT 8.0
2 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 3 rd 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/B75 (as option)
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	TBD
Size	338 x 122 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 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
594C1093400E	DVI cable 24-pin header to DVI-D, L=20cm	1

Ordering Information

Standard	
SHB120VGA-Q77	LGA1155 socket H2 PICMG1.3 full-size CPU card with VGA, 2 10/100/1000Mbps Ethernet and audio
SHB120PGGA-Q77	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