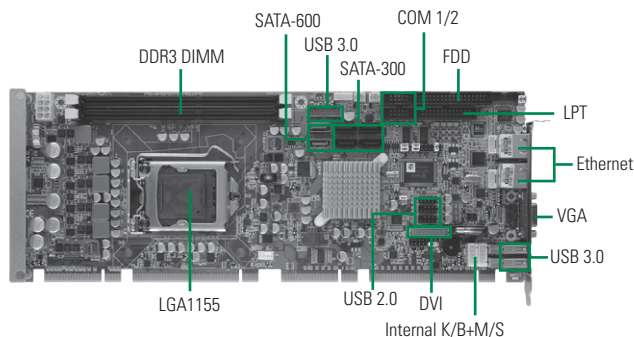


# SHB120

PICMG 1.3 Full-size CPU Card with LGA1155 3rd Gen Intel® Core™ i7/i5/i3 Processor, Intel® Q77, SATA3, USB 3.0, VGA/DVI and Dual LANs

## Features

- LGA1155 3rd gen Intel® Core™ i7/i5/i3 processor (Ivy Bridge)
- Intel® Q77 chipset
- 2 DDR3-1333/1600 DIMM, up to 16GB
- Intel® AMT 8.0 & TPM (optional) supported
- PCIe Gen. 3 at 8GT/s supported
- USB 3.0 ports
- DVI/VGA and optional DisplayPort with dual-view supported



## Core System

CPU	LGA1155 socket 3rd generation Intel® Core™ i7/i5/i3 processor (Ivy Bridge)
System Memory	2 x 240-pin DDR3-1333/1600 DIMM, up to 16GB
Chipset	Intel® Q77
BIOS	AMI UEFI BIOS with OA 3.0 built
SSD	N/A
Watchdog Timer	225 levels, 1 ~ 255 sec.
Expansion Interface	1 x PCIe x16, Gen. 3 1 x PCIe x4 (or 4 PCIe x1), Gen. 2 4 x 32 bit PCI bus masters
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 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 FDD 1 x PS/2 keyboard & 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
RIO	2 x RJ-45 1 x VGA or Displayport 2 x USB 3.0
SATA	2 x SATA-600 4 x SATA-300 with RAID 0/1/5/10
Hardware Monitoring	Detect CPU/System temperature, voltage and fan speed
Ethernet	1st ports as 10/100/1000 Mbps supports WOL, RPL/PXE Boot ROM with Intel® 82574L 2nd port as 10/100/1000 Mbps supports 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	Yes
TPM	Infineon SLB9635 for trusted platform (optional)

## Display

Chipset	Intel® HD Graphics
Memory Size	Max. up to 352 MB 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 500 mm	1

## Ordering Information

### Standard

SHB120VGGA	PICMG1.3 full-size CPU card with LGA1155 socket, VGA, (P/N: E38C120100)
SHB120PGGA	PICMG1.3 full-size CPU card with LGA1155 socket, DisplayPort, 2 GbE LANs and audio (P/N: E38C120101)

### Optional

E9B900C000	LGA1156 cooler 4-pin, H: 61.4 mm
50761222000E	LGA1156 2U cooler 3-pin, H: 68.8 mm
5938A808010E	2 x USB 2.0 cable w/bracket, P=2.54 mm, L=190 mm
59380000290E	PS/2 keyboard & mouse cable with bracket
593826A0000E	SATA signal cable 500 mm
593836A0030E	4-pin power cable to SATA x 2, L=150 mm
594C1093500E	DVI cable 24-pin header to DVI-D, L=300 mm
71193221200E	DVI bracket
59384500100E	Audio cable w/ bracket, P=2.0 mm, L=450 mm
5948C122800E	2 x USB 3.0 cable w/ bracket 20P, L=400 mm