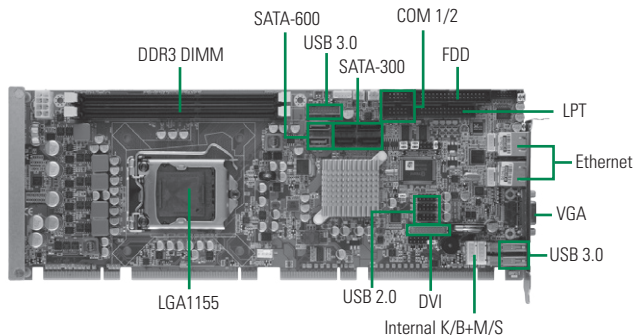


# SHB120

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



## System

|                     |  |
|---------------------|--|
| CPU                 | LGA1155 for 3rd Generation Intel® Core™ i7/i5/i3 processor (Ivy Bridge)                  |
| System Memory       | 2 x 240-pin DDR3-1333/1600 DIMM max. up to 16 GB   |
| 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<br>1 x PCIe x4 (or 4 PCIe x1), Gen. 2<br>4 x 32 bit PCI bus masters |
| Battery             | Lithium 3v/220 mAH   |
| Power Requirements  | Intel® Core™ i7-2700K<br>+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<br>1 x PS/2 keyboard<br>1 x PS/2 mouse<br>1 x LPT; with SPP/EPP/ECP supported<br>1 x RS-232 (COM 2)<br>1 x RS-232/422/425 (COM 1)<br>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 10/100/1000Mbps supports WOL, RPL/PXE Boot ROM with Intel® 82574L<br>2nd port as 10/100/1000Mbps 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)   |

## Features

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

## Display

|                   |   |
|-------------------|---|
| Chipset           | Intel® HD Graphics  |
| Memory Size       | Max. up to 352 MB frame buffer dedicated memory                       |
| 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

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

### 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=2.54mm, 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=30 cm       |
| 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=400mm        |