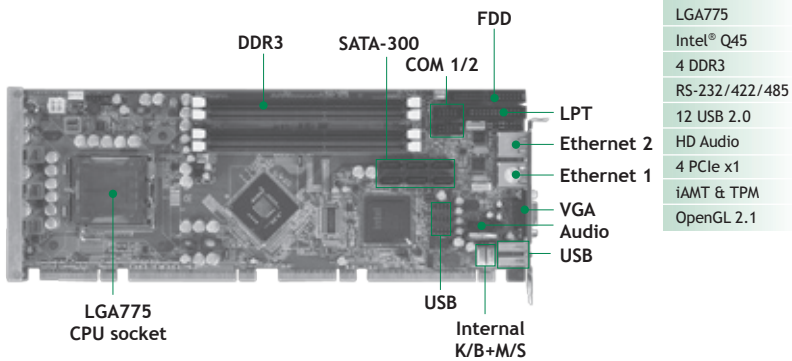


SHB102

LGA775 Intel® Core™2 Quad PICMG 1.3 Full-size CPU Card with Intel® Q45+ICH10DO Chipset, Dual LANs, iAMT and TPM



- LGA775
- Intel® Q45
- 4 DDR3
- RS-232/422/485
- 12 USB 2.0
- HD Audio
- 4 PCIe x1
- iAMT & TPM
- OpenGL 2.1

System

CPU	LGA775 socket for Intel® Core™2 Quad/ Core™2 Duo/Celeron® processor with 800/1066/1333 MHz
System Memory	4 x 240-pin DDR3-800/1066 DIMM max. up to 16GB
Chipset	Intel® Q45+ICH10DO
BIOS	AMI BIOS
SSD	N/A
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	* PCIe x16 via SHB Connector-A & B * PCIe x4 (or 4 PCIe x1) via SHB Connector-A * PCI with 4 bus masters via SHB Connector-D
Battery	Lithium 3V/196mAH
Size	338 x 126mm
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 1) 1 x RS-232/422/485 (COM2)
SATA	6 x SATA-300 with RAID 0/1/10/5
Hardware Monitoring	Support CPU/System temperature, CPU/System voltage, and CPU/System Fan features
Ethernet	* 1st port as 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM, iAMT with Intel 82567LM * 2nd port as 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel 82574L
Audio	HD Codec audio as MIC-in / Line-in / Line-out / speaker-out with Realtek ALC888 Codec
USB	12 x USB 2.0; 2 ports on the rear I/O, 6 ports with pin-header, 4 ports via SHB Connector-C
TPM 1.2	Infineon SLB9635 for trusted platform
SMBus	System Management Bus for advanced monitoring/control interface

Features

- LGA775 for Intel® Core™2 Quad/Core™2 Duo/Celeron® processor with 800/1066/1333 MHz
- Intel® Q45+ICH10DO chipset
- 4 DDR3-800/1066 DIMM support up to 16GB
- With Intel 4500 high performance integrated graphic controller with DX10 and OpenGL 2.1
- RAID 0, 1, 10 and 5
- Intel® iAMT & TPM supported
- Supports x16 PCI Express 2.0

Display

Chipset	Intel® Q45 GMCH 4500 integrated graphics engine; support Microsoft DirectX 10 & OpenGL 2.1
Memory Size	Max. up to 256MB frame buffer dedicated memory & DVMT up to 352MB
Resolution	* VGA up to 2048 x 1536 @ 60 Hz with 32-bit color * SDVO each ports up to 1920 x 1200 @ 60Hz
Output Interface	VGA with D-sub 15-pin connector

Packing List

Standard		
Quick installation guides, user's manual/utility CD, cable		
Cable		
Part Number	Description	SHB102VGGA Qty
59380502000E	COM + Print cable w/ bracket	1
593826A0000E	SATA signal cable 500mm	1

Ordering Information

Standard	
SHB102VGGA (P/N: E38C102100)	LGA775 socket PICMG 1.3 full-size CPU card with VGA, 2 10/100/1000Mbps, iAMT, iTPM, and RAID
Optional	
593836A0030E	4-pin power cable to SATA x 2 L=150mm
5938A808010E	2 x USB port cable L=190mm
59384500100E	Audio cable P=2.0 L=450mm

SBC Services and Solutions

System-on-a-Module Solutions

Embedded SBCs > 5.25" Petit

Embedded SBCs > EPIC

Embedded SBCs > 3.5" Capa

Embedded SBCs > Pico-ITX

Embedded SBCs > PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix