




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SHB-E18 Intel® Core™2 Quad Q35 PICMG 1.3 SBC



- ▶ Support Intel® Core 2 Quad, Core 2 Duo, Celeron D processor in LGA775 package.
- ▶ Two DDR2-800 DIMM sockets support up to 4GB system memory in Dual Channel Mode.
- ▶ Dual GbE LANs maximize communication bandwidth.
- ▶ Multiple I/O functions: 6 x USB2.0, 2x COM ports, 6x SATA, 1x IRDA, 1x PIDE, 1x LPT, 1x FDD, 1x DIO.
- ▶ Six SATA-II ports support RAID0, RAID 1, RAID 5, RAID10 and Legacy IDE mode.
- ▶ Standard PICMG 1.3 Form Factor.

 [User Manual](#)  [Datasheet](#)  [Drivers](#)

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Processor Support

- Intel® Core 2 Quad, Core 2 Duo, Celeron D processor.
- Supports Front Side Bus speed 800, 1066 or 1333MHz.
- LGA775 socket.

BIOS

- Award Standard PnP Flash BIOS 6.0.
- 8Mbit FlashROM with BootBlock for Fail-safe.

System Memory

- Two DDR2 DIMM Sockets with Dual Channel Mode support.
- Supports DDR2 667/800 non-ECC memory up to 4.0 GB.

Chipset

- Intel Q35 and ICH9DO chipset.

Video

- Intel Q35 Integrated GMA3100 Graphic Engine .
- Support DVMT 4.0 for memory allocation up to 256MB.
- One D-Sub connector on rear panel for CRT display.

10/100M/1000M Ethernet

- Two Realtek RT8111C on board for Dual GbE LAN support.
- Support Wake-on-LAN, Remote Boot with PXE and RTL.

On Board I/O

- Winbond 83627HF LPC I/F Super I/O chip.
- Two serial ports as COM1~COM2. COM2 is RS232/422/485 selectable by jumper.
- One Parallel port supports SPP/ECP/EPP mode.
- One IrDA port, One Floppy connector for up to two drives.

PIDE and SATA

- Six SATA-II ports support RAID0, RAID 1, RAID 5, and RAID10.
- One PIDE 40-pins connector support two devices and up to ATA133 speed.

Watchdog Timer

- Programmable watchdog timer for 1~255 seconds.

CMOS

- On-board RTC with 242 bytes of Battery-back CMOS RAM.

Audio

- RealTek ALC888 High-Definition Audio chip on-board.
- Support Line-OUT, Line-IN, MIC, SPDIF, CD-IN and Surrounding sounds with pin-headers.

Power

- One ATX-12V 4-pins connector for CPU power.
- Support both AT and ATX mode.

Software Compatibility

- Microsoft windows: Win2K, Win XP 32/64-bits, Vista 32/64-bits.
- Linux 32-bits/64-bits and DOS 6.22.

Cooling

- One CPU cooling FAN connector nearby CPU socket
- One system cooling FAN connectors for chassis or power supply cooling.

Dimensions

- PICMG 1.3 Full-Size SBC form factor .
- 4.98"(W) x 13.33" (L); or 126.4mm (W) x 338.6mm (L) .

Operating Temperature

- 0 to 60 ° C operating Range.
- -40~70 ° C storage
- Relative Humidity: 5~95%, non-condensing.

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