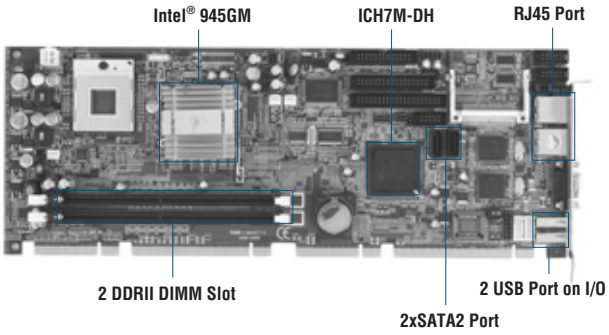
SHB110

Socket M Intel® Core™2 Duo/Core™ Duo/Core™ Solo PICMG 1.3 Full-size SBC with CRT/LAN/Audio



Features

- Socket M for Intel® Core™2 Duo/Core™ Duo/Core™ Solo mobile processor with FSB 533/667MHz
- Two 240-pin DDR2 DIMM slots support up to 4GB memory capacity
- Two Serial ATA port support data transfer rate up to 300MB/s
- LVDS connector onboard (optional)
- Built-in 4 USB ports (2 ports on I/O bracket, 2 ports by pin-header)

Specifications

Processor/Cache (Socket M)	Intel® Core™2 Duo mobile processor up to up-to-date frequency with L2 cache integrated in CPU(Merom Core) Intel® Core™ Duo/LV/ULV mobile processor up to up-to-date frequency with L2 cache integrated in CPU Intel® Core™ Solo/ULV mobile processor up to up-to-date frequency with L2 cache integrated in CPU
Chipset	Intel® 945 GM+ICH7M-DH
FSB Speed	533/667MHz
Bus interface	PICMG1.3 full-size CPU card
System Memory	Two DDR2 DIMM slots onboard support DDR2 533/667 The maximum memory capacity could be up to 4GB (unbuffered DIMM only)
BIOS	Award PnP Flash BIOS
EIDE	One ATA66/100/133 channel for a total of two IDE devices
Super I/O	Controller: Winbond W83627HG-AW Serial port: 1 port for RS-232(COM1) and 1 port for RS-232/422/485(COM2) Parallel port: one bi-directional with ECP/EPP/SPP support Floppy controller: Supports two drives (1.44MB for each)
USB	4 USB 2.0 high speed compliant
Serial ATA	Supports serial ATA/serial ATA II Two serial ATA channels for a total of two serial ATA hard drives Maximum transfer rate could be up to 300MB/sec
Display	Intel® Graphic Media Accelerator 3000 integrated on Intel® 945GM
Ethernet	LAN1/LAN2: Intel® 82573L Ethernet controller supports 10/100/1000Mb (for SHB110V2G only) LAN1: Intel® 82573L Ethernet controller supports 10/100/1000Mb (for SHB110VG only) Dual PCI-Express LAN Wake On LAN support
Connectors	RJ-45 connector: 2 ports for SHB110V2G/1 port for SHB110VG SATA port: 2 x SATAII connector Box-header: 2 x serial port (2 x 5-pin); 1 x parallel port (2 x 13-pin); 1 x FDD (2 x 17-pin); 1 x EIDE (2 x 20-pin); 1 x audio port (2 x 5-pin) Pin-header: 4 x USB (two ports for external/two ports for internal by header) LVDS connector: 2 x 20-pin connector(optional function) Power connector: 2 x 2-pin for 12V connector Keyboard/mouse: 5-pin wafer connector x 2 for mouse or keyboard D-Sub connector: DB-15 for VGA, Fan connector x 3 (1 x 3-pin for CPU/2 x 3-pin for systems)
Audio	Realtek ALC203 audio codec onboard 1 x CD_IN (1 x 4 pin)
Resolution	Single Display Mode: CRT: 2048 x 1536 @ 75Hz

Specifications

Hardware Monitoring	Controller: Winbond W83627HG-AW Detection of CPU temperature, system temperature, power failure and fan speed
Watchdog Timer	System reset or non-maskable interrupt software programmable time internal and jumper selectable (1-256 level)
OS Compatibility	Windows® 2000, Windows® XP; Novell Netware; Linux kernal 2.4 or above
Mechanical	338 x 122mm 8 layer PCB
Environmental	Operating Temperature: 0° to 60°C (32° to 140°F) (Depends on CPU) Relative Humidity: 95%, non-condensing at temperature of 40°C or 104°F

Ordering Information

SHB110V2G	Socket M Intel® Core™2 Duo PICMG 1.3 full-size SBC w/ VGA, audio, dual Gigabit LAN
SHB110VG	Socket M Intel® Core™2 Duo PICMG 1.3 full-size SBC w/ VGA, audio, Gigabit LAN

Packing List

Description
FDD cable x 1
IDE HDD cable x 1
Serial ATA cable x 1
Jumper pack x 1
Quick manual x 1
Utility CD x 1

Optional Accessories

593826A0000E	SATA signal cable 500mm (red RC)
593836A0030E	4 pin power cable to SATAx2 L=150m (RC)
5938A808010E	2 port USB cable (190mm)
593836000000E	Audio cable

* All specifications and photos are subject to change without notice.