

SHB210

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

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Industrial PCs



Industrial Motherboards

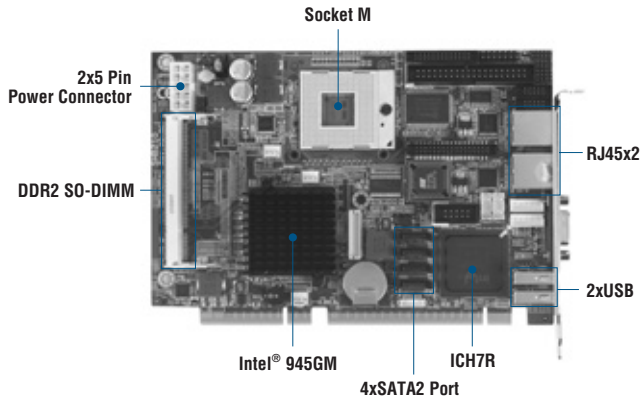
PICMG Single Board Computers

Backplanes

Industrial Computer Chassis

Power Supplies

Peripherals & Accessories



Specifications

Processor/Cache (Socket M)	Intel® Pentium® Core™2 Duo mobile processor up to up-to-date frequency with L2 cache integrated in CPU (Merom Core) Intel® Pentium® Core™2 Duo/LV/ULV mobile processor up to up-to-date frequency with L2 cache integrated in CPU Intel® Pentium® Core™ Solo/ULV mobile processor up to up-to-date frequency with L2 cache integrated in CPU Intel® Celeron® M ULV mobile processor up to up-to-date frequency with L2 cache integrated in CPU
Chipset	Intel® 945 GMCH/ICH7M-DH
FSB Speed	533/667MHz
Bus interface	PICMG 1.3 half-size CPU card
System Memory	Two DDR2 SODIMM sockets onboard support DDR2 533/667 The maximum memory capacity could be up to 4GB
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) Keyboard/mouse: 5-pin wafer connector for mouse or keyboard
USB	Six USB 2.0 high speed compliant
Serial ATA	Support serial ATA/serial ATA II Two serial ATA channels for a total of four serial ATA hard drives Maximum transfer rate could be up to 300MB/sec
Display	Intel® Graphic Media Accelerator 3000 integrated on Intel® 945GM for CRT only
Output interface	LVDS for 18 bit TFT LCD
Ethernet	LAN1/LAN2: Realtek 8111B Ethernet controller supports 10/100/1000Mb Dual PCI-Express LAN Wake On LAN support
Connectors	RJ-45 connector: 2 ports for SHB210V2G/1 port for SHB210VG SATA port: 4 x SATA II connector (Intel® ICH7-M DH only) 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) Pin-header: 6 x USB (two port for external/four ports for internal by header-2 x 5-pin) Power connector: 2 x 5-pin for stand-alone power on/off
Onboard SSD	One CompactFlash™ Type-II socket

Features

- ▶ Socket M for Intel® Core™2 Duo/Core™ Duo/Core™ Solo mobile processor with FSB 533/667MHz
- ▶ Two 240-pin DDR2 SODIMM sockets support up to 4GB memory capacity
- ▶ Two Serial ATA ports support data transfer rate up to 300MB/s
- ▶ CompactFlash™ Type II socket onboard

Specifications

Resolution	Single Display Mode: CRT: 2048 x 1536 @ 75Hz
Hardware Monitoring	Controller: Winbond W83627HF-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 Kernel 2.4 or above
Mechanical	185 x 122mm 8 layer PCB
Environmental	Operating Temperature: 0° ~60°C (32° ~140°F) (Depends on CPU) Relative Humidity: 95%, non-condensing at temperature of 40°C or 104°F

Ordering Information

SHB210V2G	Socket M Intel® Core™2 Duo PICMG 1.3 half-size SBC w/ VGA, audio, dual Gigabit LAN
SHB210VG	Socket M Intel® Core™2 Duo PICMG 1.3 half-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)