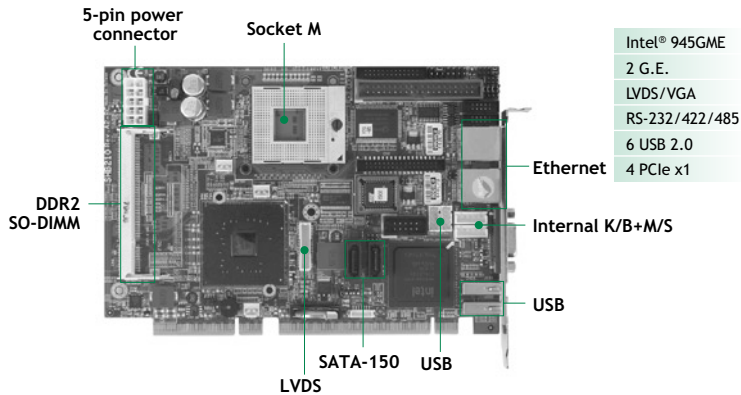


# SHB210

Socket M Intel® Core™2 Duo PICMG 1.3 Half-size CPU Card with Intel® 945GME + ICH7M-DH Chipset, VGA/LVDS and Dual LANs



Low Power

## Features

- Socket M for Intel® Core™2 Duo/ Celeron® M processor with 533/667 MHz
- Intel® 945GME + ICH7M-DH chipset
- 2 DDR2-533/665 SODIMM support up to 4 GB
- With Intel® GMA 950 integrated graphics controller for VGA and LVDS

SBC Services and Solutions

System on Modules

Embedded SBCs > EPIC

Embedded SBCs > 3.5" Capa

Embedded SBCs > Pico-ITX

Embedded SBCs > PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix

## System

CPU	Socket M for Intel® Core™2 Duo/ Core™ Duo/ Core™ Solo/ Celeron® M processors with FSB 533/667 MHz
System Memory	2 x 200-pin SO-DIMM supports DDR2-533/667 max. up to 4 GB
Chipset	Intel® 945GME + ICH7M-DH
BIOS	Phoenix-Award
SSD	1 x CompactFlash™ type-II
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x PCIe x16 graphics port supports for SDVO or PCIe x1 devices 4 x PCIe lanes support 1 x PCIe x4 or 4 x PCIe x1 I/O devices
Battery	Lithium 3V/196 mAH
Power Requirements	Intel® T7600 @2.33 GHz, 2G DDR2 +5V_SBY @ 21mA, +3.3V @ 916mA, +5V @ 112mA, +12V @ 2.332A, -12V @ 34mA
Size	185 x 126 mm
Board Thickness	1.6 mm
Temperature	0° C ~ +60° C (32° F ~ 140° F), operation
Relative Humidity	10% ~ 95% relative humidity, non-condensing

## I/O

MIO	1 x IDE; PATA-100 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 2) 1 x RS-232/422/485 (COM 1)
SATA	2 x SATA-150; with RAID 0/1
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	2 ports as 10/100/1000Mbps support Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111B
Audio	HD Codec audio as MIC-in/Line-in/Line-out/speaker-out with audio kit AX93242 (optional)
USB	6 x USB 2.0
SMBus	N/A

## Display

Chipset	Intel® GMA 950 graphics Core
Memory Size	Intel® DVMT 3.0 compliant
Display Interface	1 x VGA 1 x LVDS; 18/24-bit single/dual channel

## Packing List

Standard		
Quick installation guide, user's manual/utility CD, cable		
Cable		
Part Number	Description	Qty
5938450000E	COM + Print cable w/ bracket	1
59382601000E	Ultra DMA66 IDE cable 40-pin 455mm	1
59384500300E	FDD flat cable "2.54 to 2.0 pitch 320mm	1
593826A0000E	SATA signal cable 500mm	1
50784830200E	SBC84830 CPU heat sink (41 x 41mm) RC	

## Ordering Information

Standard	
SHB210VGG	Socket M PICMG 1.3 half-size CPU card with (P/N: E38C210100) VGA/LVDS, 2 10/100/1000Mbps Ethernet and 6 USB
SHB210VG	Socket M PICMG 1.3 half-size CPU card with (P/N: E38C210101) VGA/LVDS, 10/100/1000Mbps Ethernet and 6 USB
Optional	
593836A0030E	4-pin power cable to SATA x 2, L=150mm
59382631000E	2 x USB port wafer cable with bracket, L=180mm
E393242101	AX93242-RC HD audio converter kit