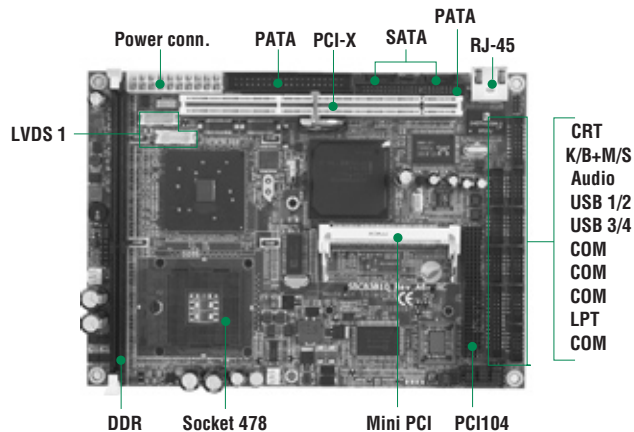


SBC83810

Socket 478 Intel® Pentium® M Embedded SBC with DualView,
4 COM and SATA-150

2

Single Board Computers



System

CPU	Socket 478 for Intel® Pentium® M and Intel® Celeron® M processor with FSB 400 MHz
System Memory	1 x 184-pin DDR DIMM max. up to 1GB (ECC & DDR333 supported by 855GME only)
Chipset	Intel® 855GME/852GM+6300ESB
BIOS	Phoenix-Award 4Mbit with RPL/PXE LAN Boot ROM, SmartView and customer CMOS backup
SSD	CompactFlash™ type-II socket with DMA supported
Watchdog Timer	System reset and SMI; 1024 levels, 0-600 seconds
Expansion Interface	PCI-X expansion slot for 2 PCI masters Mini PCI type-III socket PCI-104 Interface
Battery	Lithium 3V/196 mAh
Size	203 x 146 mm
Temperature	0-60°C, operation
Operation Humidity	10% ~ 95% relative humidity, non-condensing

I/O

MIO	2 x PATA-100 IDE, 2 x SATA-150 IDE, 1 x FDD, 1 x PS/2 K/B, 1 x PS/2 M/S, 4 x COM (3 x RS-232, 1 x RS-232/422/485) with auto flow control 1 x LPT, 1 x IrDA
Ethernet	Realtek RTL8100C Fast Ethernet controllers; optional with RTL8110S Gigabit Ethernet
Audio	AC'97 codec audio
USB	4 USB 2.0 ports via box-header

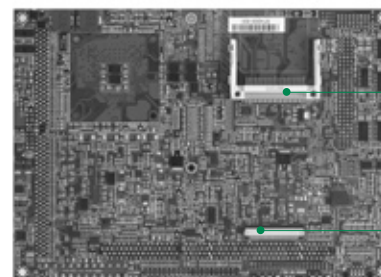
Display

Chipset	Integrated in Intel® 855GME/852GM GMCH
Memory Size	Max. up to 64MB frame buffer sharing system memory
Resolution	CRT: 1920 x 1440@60Hz; LVDS LCD: 1600 x 1200@60Hz
Output Interface	* CRT with box-header for DAC output * 1 st LVDS LCD with 2 x 20-pin connectors * 2 nd LVDS LCD with 2 x 20-pin connectors (optional)

Features



- ▶ Socket 478 for Intel® Pentium® M/Celeron® M processor with FSB 400 MHz
- ▶ Intel® 855GME/852GM+6300ESB chipset
- ▶ DualView with different content & resolution
- ▶ 4 COM ports for transaction terminal applications
- ▶ Serial ATA-150 supported
- ▶ PCI-X, PCI-104 and Mini PCI expansion Interfaces
- ▶ RAID 0 and 1 supported



Rear view

Packing List

Quick installation guide, manual, driver, utility CD, CPU cooler

Ordering Information

Standard	
SBC83810VEA	Socket 478 5.25" SBC with CRT/LVDS LCD, Fast Ethernet AC'97 audio, 4 COM ports, DDR266 only
SBC83810VEA-1GE	5.25" SBC with ULV C-M 1 GHz/ZC CPU, Fast Ethernet, AC'97 audio and 4 COM ports
SBC83810VEA-600	5.25" SBC with ULV C-M 600MHz/512KB CPU, Fast Ethernet (RTL8100C), AC'97 audio and 4 COM ports
Optional	
SBC83810VEA-L	Socket 478 5.25" SBC with Intel® 852GM, CRT/LVDS LCD, Fast Ethernet, AC'97 audio, 4 COM ports, DDR266 only and w/o PCI104
SBC83810VLEA	Socket 478 5.25" SBC with CRT/Dual LVDS LCD, Fast Ethernet (RTL8100C), AC'97 audio and 4 COM ports
SBC83810VGA	Socket 478 5.25" SBC with CRT/LVDS LCD, Gigabit Ethernet (RTL8110S), AC'97 audio and 4 COM ports
CK9A001	1 x PS/2 KB-MS cable, 1 x Y-type PS/2 KB+MS adapter, 1 x CRT cable
CK9A002	1 x 44pin-to-44 & 40-pin IDE cable, 1 x 40pin-to-40pin DMA66/100 IDE cable, 2 x SATA-150 cable, 1 x 26pin FDD cable, 1 x 26pin FDD Reverse cable, 2 x COM cable, 1 x LPT cable
CK9A003	1 x audio cable, 4 USB 2.0 cable

SBC Services and Solutions

System-on-a-Module Solutions

Embedded Single Board Computers

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix