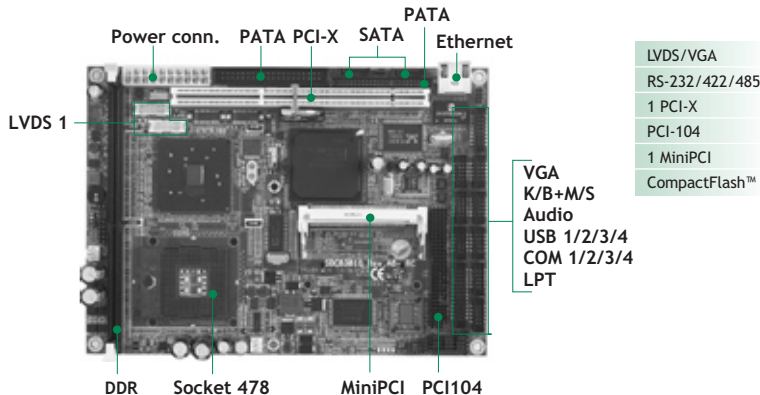


SBC83810

Socket 478 Intel® Pentium® M Embedded SBC with Intel® 855GME/852GM+6300ESB Chipset, 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-333/400 DIMM max. up to 1GB (ECC & DDR-333 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	1 x CompactFlash™ type-II with DMA supported
Watchdog Timer	1024 levels
Expansion Interface	1 x PCI-X expansion slot for 2 PCI masters 1 x MiniPCI type-III 1 x PCI-104 Interface
Battery	Lithium 3V/196 mAH
Size	203 x 146 mm
Temperature	0°C ~ +60°C (32°F ~ 140°F), operation
Operation Humidity	10% ~ 95% relative humidity, non-condensing

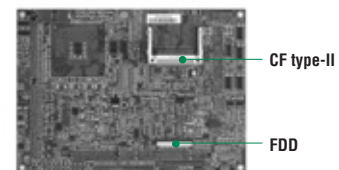
I/O

MIO	2 x IDE; PATA-100 1 x FDD 1 x PS/2 keyboard 1 x PS/2 mouse 3 x RS-232 (COM 1/3/4); with +5V/12V powered 1 x RS-232/422/485 (COM 2); with +5V/12V powered and auto flow control 1 x LPT; with SPP/EPP/ECP supported 1 x IrDA
SATA	2 x SATA-150
Hardware Monitoring	Support CPU/System temperature, CPU/System voltage, and CPU/System Fan features
Ethernet	1 port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8100C (optional for 10/100/1000Mbps with Realtek RTL8110S)
Audio	AC'97 Codec audio as Mic-in/Line-in/Line-out/Speaker-out with Realtek ALC203
USB	4 x USB 2.0, via box-header
SMBus	N/A
Digital I/O	N/A

* W.T.: Wide Temperature

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
- 2 Serial ATA-150 supported
- 1 PCI-X, PCI-104 and MiniPCI expansion Interfaces
- RAID 0 and 1 supported



▲ Rear view

Display

Chipset	Integrated in Intel® 855GME/852GM GMCH
Memory Size	Max. up to 64MB frame buffer sharing system memory
Resolution	* VGA: up to 1920 x 1440@ 60 Hz * LVDS LCD: 18/24-bit single/dual channel up to 1400 x 1050
Output Interface	* VGA with D-sub 15-pin connector * 1 st LVDS LCD with 2 x 20-pin connectors * 2 nd LVDS LCD with 2 x 20-pin connectors (optional)

Packing List

Quick installation guide, user's manual/utility CD, cable

Ordering Information

Standard	
SBC83810VEA	Socket 478 5.25" SBC with VGA/LVDS LCD, (P/N: E383810100) 10/100Mbps, AC'97 audio, 4 COM ports, DDR266 only
SBC83810VEA-1GE	5.25" SBC with ULV Intel® Celeron® M 1 GHz/ZC CPU, 10/100Mbps, AC'97 audio (P/N: E383810119) and 4 COM ports
SBC83810VEA-600	5.25" SBC with ULV Intel® Celeron® M 600MHz/512KB CPU, 10/100Mbps (RTL8100C), (P/N: E383810125) AC'97 audio and 4 COM ports
Optional	
SBC83810VEA-L	Socket 478 5.25" SBC with Intel® 852GM, (P/N: E383810113) VGA/LVDS LCD, 10/100Mbps, AC'97 audio, 4 COM ports, DDR266 only and w/o PCI104
SBC83810VLEA	Socket 478 5.25" SBC with VGA/Dual LVDS LCD, 10/100Mbps (RTL8100C), AC'97 audio and 4 COM ports
SBC83810VGA	Socket 478 5.25" SBC with VGA/LVDS LCD, (P/N: E383810130) 10/100/1000Mbps (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 VGA 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 26-pin FDD Reverse cable, 2 x COM cable, 1 x LPT cable
CK9A003	1 x audio cable, 4 USB 2.0 cable

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

SBC Services and Solutions

System-on-a-Module Solutions

Embedded SBCs > 5.25" Petit

Embedded SBCs > EPIC

Embedded SBCs > 3.5" Capa

Embedded SBCs > Pico-ITX

Embedded SBCs > PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix