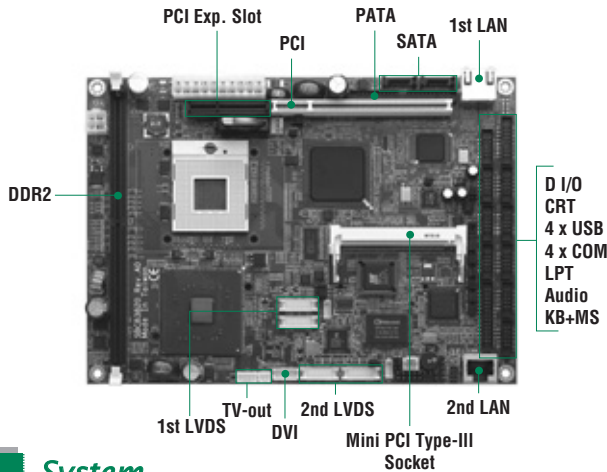


SBC83820

Pentium® M Embedded SBC LAN with DualView, Dual LAN, 4 COM and PCI Express



- Socket 478
- Dual LAN
- DualView
- AC'97 Audio
- PCI Express
- Mini PCI & PCI
- 4 COM



Features

- ▶ Intel® Pentium® M/Celeron® M CPU with 400/533MHz FSB
- ▶ DualView with different content & resolution
- ▶ Dual Gigabit LAN option supported
- ▶ 4 COM ports for transaction terminal applications
- ▶ Serial ATA-150 supported
- ▶ PCI Express, Mini PCI and PCI expansion interfaces

Packing List

Quick installation guide
Manual, driver, CPU Cooler & Utility CD

Ordering Information

Standard	
SBC83820VEEA	With CRT/LVDS LCD/TV-out, Dual Fast Ethernet (i82551QM), AC'97 Audio and 4 COM ports
Optional	
SBC83820VEA	With CRT/LVDS LCD/TV-out, Fast Ethernet, AC'97 Audio and 4 COM ports
SSBC83820VLEEA	With CRT/Dual LVDS LCD/TV-out, Dual Fast Ethernet (i82551QM), AC'97 Audio and 4 COMs
SBC83820VEEA-1.4G	With Pentium® M 1.4GHz CPU, CRT/LVDS LCD/TV-out, Dual Fast Ethernet (i82551QM), AC'97 Audio and 4 COMs
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 with game port, 4 x USB 2.0 cable

System

CPU	* Socket 478 for 400/533MHz FSB Intel® Pentium® M and Celeron® M processors to up-to-date frequency * Optional onboard LV Intel® Pentium® M 1.4GHz and ULV Celeron® M 1.0GHz
System Memory	1 x 240-pin DDR-2 DIMM max. up to 1GB
Chipset	Intel® 915GM + ICH * 6M
BIOS	Phoenix-Award 4Mbit with RPL/PXE LAN Boot ROM, SmartView and Customer CMOS Backup
SSD	CompactFlash™ Type-II with DMA mode support
TCG 1.2/TPM 1.2	Infineon SLD 9630 (optional)
Watchdog Timer	255 levels as SMI and Reset from 0 ~ 255sec
Expansion Interface	* PCI Express expansion slot for three X1 PCI-E * 32-bit/33MHz PCI for 2 Masters * Mini PCI Type-III Socket
Battery Lithium	3V/196 mAh
Size/Weight	203 x 146 mm
Temperature	0 ~ 60°C, operation
Operation Humidity	10% ~ 95% relative humidity, non-condensing

I/O

MIO	1 x PATA-100 IDE, 2 x SATA-150 IDE, 1 x FDD, 1 x PS/2 K/B, 1 x PS/2 MS, 4 x COM (3 x RS-232, 1 x RS-232/422/485), 1 x LPT, 1 x IrDA
Digital I/O	4 channel IN and 4 channel OUT
Ethernet	Intel® 82551QM for 1 st Fast Ethernet controller; Intel® 82562GZ for 2 nd Fast Ethernet controller (Both ports are optional for Gigabit Ethernet)
Audio	AC'97 Codec Audio
USB	4 x USB 2.0 port via box-header

Display

Chipset	Integrated in Intel® 915GM GMCH
Memory Size	Max. up to 128MB frame buffer sharing system memory
Resolution	* Single Display Mode: CRT: 2548 x 1536; 1 st LVDS LCD: 1600 x 1200; 2 nd LVDS LCD: 1600 x 1200 (optional); DVI: 1600 x 1200 (optional); TV-out: 1024 x 768 * DualView Mode: CRT: 2548 x 1536; 1 st LVDS LCD: 1600 x 1200; 2 nd LVDS LCD: 1600 x 1200 (optional); DVI: 1600 x 1200 (optional); TV-out: 1024 x 768
Output Interface	* CRT with box-header for DAC output * 1 st LVDS LCD with 2 x 20-pin Hirose connectors * 2 nd LVDS LCD with 2 x 20-pin Hirose connectors (optional) * DVI LCD with 1 x 20-pin DF20 connector * TV-out for S-Video 4-pin wafer & RCA 2-pin wafer

Dimensions

