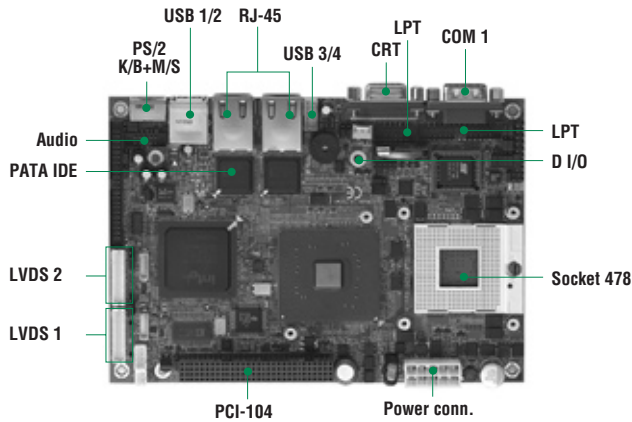


# EP820

Socket 478 Intel® Pentium® M EPIC SBC with DualView, SATA and PCI-104 Expansion

# 2

Single Board Computers



## System

CPU	Socket 478 for Intel® Pentium® M/Celeron® M processor with FSB 400/533 MHz
System Memory	1 x 200-pin DDR 2 400/533 SODIMM max. up to 1GB
Chipset	Intel® 915GME/910GML+ICH6M
BIOS	Phoenix-Award 4Mbit with RPL / PXE LAN Boot ROM, SmartView and customer CMOS backup
SSD	CompactFlash™ type-II with DMA mode support
Watchdog Timer	255 levels as SMI and reset from 0~255 seconds
Expansion Interface	PCI-104 for 32-bit / 33MHz PCI stacking expansion
Battery	Lithium 3V / 196mAh
Size	165 x 115 mm
Temperature	0 ~ 60°C, operation
Operation Humidity	10% ~ 95% relative humidity, non-condensing

## I/O

MIO	1 x PATA-100 IDE, 1 x SATA-150, 1 x FDD (optional), 1 x PS/2 K/B + MS, 2 x COM (1 x RS-232, 1 x RS-232 / 422 / 485), 1 x LPT
Ethernet	1 <sup>st</sup> as Intel® 82551QM for Fast Ethernet controller 2 <sup>nd</sup> as Intel® 82562GZ for Fast Ethernet
Audio	AC'97 codec audio
USB	4 USB 2.0 ports
Digital I/O	3 channel IN and 5 channel OUT

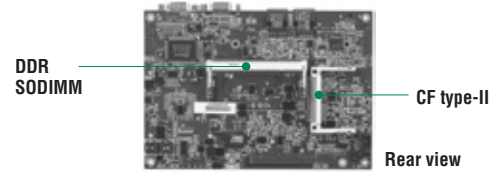
## Display

Chipset	Integrated in Intel® 915GME/910GML GMCH
Memory Size	Max. up to 128MB frame buffer sharing system memory
Resolution	* Standard mode: CRT: 2048 x 1536 1 <sup>st</sup> LVDS LCD: 1600 x 1200 2 <sup>nd</sup> LVDS LCD: 1600 x 1200 (optional)
Output Interface	* CRT for DAC output * 1 <sup>st</sup> LVDS LCD with 1 x 40-pin connectors * 2 <sup>nd</sup> LVDS LCD with 1 x 40-pin connectors (Optional)

## Features



- ▶ Socket 478 for Intel® Pentium® M/Celeron® M processor with FSB 400/533 MHz
- ▶ Intel® 915GME/910GML+ICH6M chipset
- ▶ DualView with different content & resolution
- ▶ 4 USB 2.0 ports for high speed peripherals
- ▶ Serial ATA-150 supported
- ▶ PCI-104 expansion



## Packing List

Standard			
Quick installation guide, manual, driver, CPU cooler			
Cable			
Part Number	Description	EP820VEEA-RC Qty	EP820VEEA-1GE-RC Qty
59381560000E	Mini DIN Y-cable for PS/2 K/B+MS	1	1
59484500010E	44-44-40 Pin IDE cable L=200mm+200mm	1	1
59402010000E	ATX power cable 10P L=150mm	1	1
59384500000E	COM + printer cable w/ bracket P=2.0, L=250mm	1	1
59384500100E	Audio cable w/ bracket P=2.0 L=450mm	1	1
59382631000E	2 x USB 2.0 wafer cable w/ bracket L=180mm	1	1
593826A0000E	SATA single cable 500mm	1	1

## Ordering Information

Standard	
EP820VEEA	Socket 478 EPIC SBC with CRT / LVDS LCD, dual Fast Ethernet (Intel® i82551QM+ Intel® i82562GZ) and audio
EP820VEEA-1GE	EPIC SBC with Intel® 910GML, ULV Intel® Celeron® M 1GHz/ZC onboard, CRT/LVDS LCD, dual Fast Ethernet (Intel® i82551QM- Intel® i82562GZ) and audio
Optional	
EP820VEEA-1G	EPIC SBC with ULV (373) Intel® Celeron® M 1GHz CPU onboard, CRT/LVDS LCD, dual Fast Ethernet (Intel® i82551QM) and AC'97 audio
EP820VLEEA	Socket 478 EPIC SBC with CRT/Dual LVDS LCD, dual Fast Ethernet (Intel® i82551QM) and AC'97 audio

SBC Services and Solutions

System-on-a-Module Solutions

Embedded Single Board Computers

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix