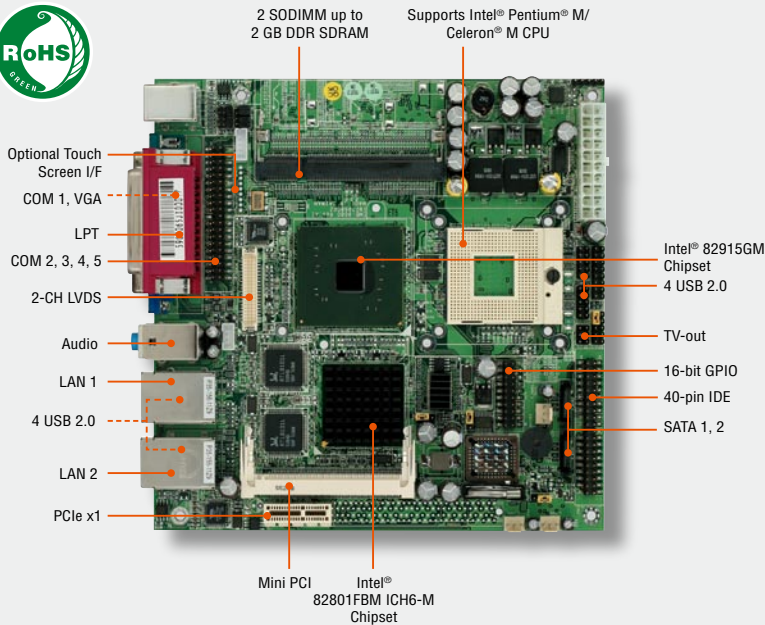




# EMB-9680 Intel® 915GM Pentium® M / Celeron® M Mini ITX Main Board



## Features

- Supports 90nm Intel® Pentium® M / Celeron® M
- Intel® 82915GM Chipset
- Two SODIMM up to 2 GB DDR SDRAM
- 2-CH LVDS, Dual View, Optional Built-in Touch Screen I/F
- 5.1 CH Audio, HDTV
- Dual Realtek RTL8101L or Optional Intel® 82551QM/82551ER 10/100Mbps LAN
- Optional Dual Intel® 82541PI/82541ER Gigabit LAN
- 1 PCIe x1, 1 Mini PCI, Type I/II CF
- 2 SATA, 5 COM, 8 USB 2.0, 16-bit GPIO



Main Board

## Specifications

### System

• CPU	Supports Intel® µFC-PGA 478 / µFC-BGA 479 Pentium® M / Celeron® M with 90nm process technology
• FSB	400/533 MHz
• BIOS	Award 512 KB Flash BIOS
• System Chipset	Intel® 82915GM GMCH/82801FBM ICH6-M
• I/O Chip	Winbond W83627HG-AW
• System Memory	Two 200-pin SODIMM sockets support up to 2 GB DDR 333 SDRAM
• SSD	One CompactFlash Type I/II socket
• Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
• H/W Status Monitor	Monitoring temperatures, voltages, and cooling fan status. Auto throttling control when CPU overheats
• Expansion	One PCI Express x1, one Mini PCI slot

### I/O

• MIO	1 x EIDE (Ultra DMA 100), 2 x SATA, 1 x LPT, 4 x RS-232, 1 x RS-232/422/485, 1 x K/B, 1 x Mouse
• IrDA	115k bps, IrDA 1.0 compliant
• USB	8 x USB 2.0 ports
• DIO	16-bit General Purpose I/O for DI and DO

### Display

• Chipset	Intel® 82915GM GMCH integrated Extreme Graphics controller
• Display Memory	Intel® DVMT 3.0 supports up to 128 MB video memory
• Resolution	CRT mode: 2048 x 1536 @ 32 bpp (85 Hz) LCD/Simultaneous mode: 1600 x 1200 @ 16 bpp (60 Hz)
• Dual Display	CRT + LVDS
• LVDS	Dual-channel 18-bit LVDS
• TV-out	Intel® 82915GM GMCH integrated TV interface supports HDTV

### Built-in Touch Screen (Optional)

• Chipset	PenMount DMC9000
• Touch Screen Interface	With 9-pin 2 mm box header (can be selected to support 4/5/8-wire touch screen)

### Audio

• AC97 Codec	VIA VT1616 supports 5.1 CH Audio
• Audio Interface	Mic in, Line in, CD Audio in, Line out

### Ethernet

• LAN	Dual Realtek RTL8101L Optional dual Intel® 82551QM/82551ER or Intel® 82541PI/82541ER Gigabit LAN
• Ethernet Interface	100Base-Tx Fast Ethernet compatible: Realtek RTL8101L, Intel® 82551QM/82551ER 1000Base-T Fast Ethernet compatible: Intel® 82541PI/82541ER

### Mechanical & Environmental

• Power Consumption	+5 V @ 2.48 A, +12 V @ 1.41 A, +3.3 V @ 0.63 A, -5 V @ 0.09 A, -12 V @ 0.07 A, 5 Vsb @ 0.18 A (with Intel® Pentium® M 1.8 GHz & 512 MB DDR SDRAM)
• Power Type	ATX
• Operating Temperature	0~60°C (32~140°F)
• Operating Humidity	0% ~ 90% relative humidity, non-condensing
• Size (L x W)	6.69" x 6.69" (170 mm x 170 mm)
• Weight	0.88 lbs (0.4 Kg)

## Ordering Information

- **EMB-9680**  
Intel® Pentium® M / Celeron® M Mini ITX Main Board with CPU Cooler, Heatsink, VGA, 2-CH LVDS, HDTV, 5.1 CH Audio, Dual LAN, CF, Mini PCI, PCI Express, 2 SATA, 5 COM, 8 USB 2.0 & GPIO
- **ACC-CF-xx**  
CompactFlash Card Series (xx = Capacity, Capacity Option: 128, 256, 512 MB, 1, 2, 4 GB)
- **ACC-FAN-PM-01R**  
Support Intel® Pentium® M CPU to 1.86G 27W