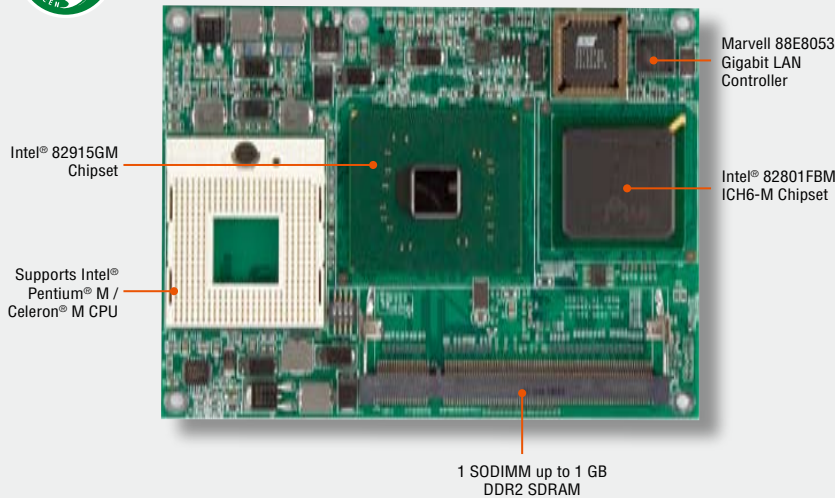




ESM-2850

Intel® 915GM Pentium® M / Celeron® M ETXexpress Module



Features

- Supports 90nm Intel® Pentium® M / Celeron® M CPU
- Intel® 82915GM Chipset
- One SODIMM up to 1 GB DDR2 SDRAM
- 2-CH LVDS, Dual View, HDTV
- Marvell 88E8053 PCI-E Gigabit LAN
- 4 PCI, 1 PCI Express x16, 3 PCI Express x1
- 2 SATA, 8 USB 2.0, 8-bit GPIO
- Fanless Possible Operation



Specifications

System

• CPU	Supports 90nm Intel® µFC-PGA 478 / µFC-BGA 479 Pentium® M / Celeron® M CPU Note: Available in different CPU speeds by request
• BIOS	Award 512 KB Flash BIOS
• System Chipset	Intel® 82915GM GMCH/82801FBM ICH6-M
• System Memory	One 200-pin DDR2 SODIMM socket supports up to 1 GB DDR2 400/533 SDRAM
• Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
• Expansion	Four PCI slots (PCI Rev. 2.3 compliant), three PCI Express x1 slots, one PCI Express x16 slot

I/O

• MIO	1 x EIDE (Ultra DMA 100), 2 x SATA
• USB	8 x USB 2.0 ports
• DIO	4-bit GPI and 4-bit GPO

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)
• Multiple Display	CRT + LVDS, CRT + TV
• LVDS Interface	Dual-channel 18/24bit LVDS
• TV-out	Intel® 82915GM GMCH integrated TV interface supports HDTV

Ethernet

• LAN	Marvell 88E8053
• Ethernet Interface	1000Base-T Fast Ethernet compatible

Mechanical & Environmental

• Power Consumption	+5 V @ 0.24 A, +12 V @ 3.51 A, +3.3 V @ 0.04 A, 5 Vsb @ 0.42 A (with Intel® Pentium® M 1.86 GHz & 256 MB DDR2 533 SDRAM)
• Power Type	ATX
• Operating Temperature	0~60°C (32~140°F)
• Operating Humidity	0%~90% relative humidity, non-condensing
• Size (L x W)	5" x 3.7" (125 mm x 95 mm)
• Weight	0.44 lbs (0.2 Kg)



Above: The two 200-pin connectors are located at the back of ESM-2850

Ordering Information

- **ESM-2850**
Intel® Pentium® M / Celeron® M ETXexpress Module
- **EEV-EX11 P.2-7**
ETXexpress Carrier Board for Evaluation
- **ACC-2850HS-01R**
Heat Spreader for ESM-2850 Series (Height: 11 mm)
- **ACC-2850HS-02R**
Heat Spreader for ESM-2850 Series with BGA Type CPU (Height: 11 mm)
- **ACC-ETEHS-01R**
Heatsink for ETX Express Heat Spread w/o Fan 125 x 95 x 30.4 mm
- **ACC-ETEHS-02R**
Heatsink for ETX Express Heat Spread with Fan 125 x 95 x 30.4 mm

Note: Cable kit not included