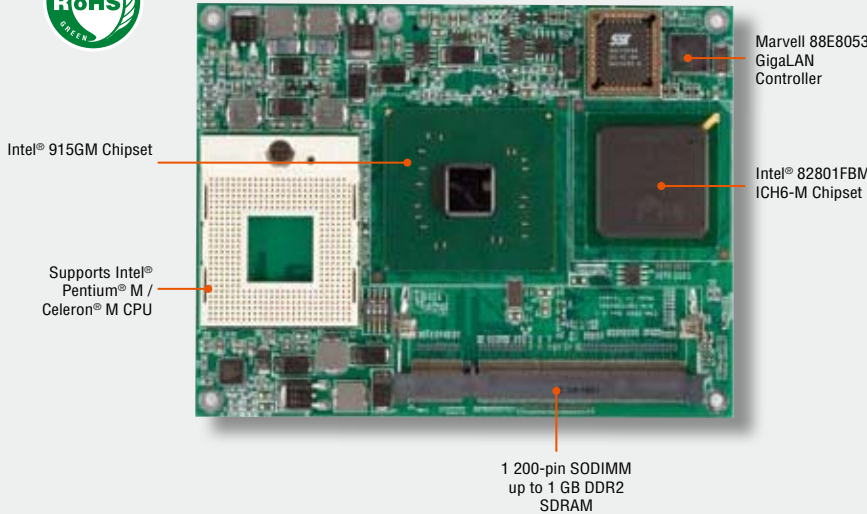




# ESM-2850

## Intel® 915GM Pentium® M / Celeron® M COM Express Module



## Features

- Supports 90nm Intel® Pentium® M / Celeron® M CPU
- Intel® 915GM / ICH6-M Chipset
- One 200-pin SODIMM up to 1 GB DDR2 SDRAM
- Dual View, 2-CH LVDS, TV-out, HDTV, HD Audio
- Marvell 88E8053 GigaLAN
- 4 PCI, 1 PCIe x 16, 3 PCIe x 1
- 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	4 PCI (PCI Rev. 2.3 compliant), 3 PCIe x 1, 1 PCIe x 16

### 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 + TV
• LVDS Interface	Dual-channel 18/24 bit LVDS
• TV-out	Intel® 82915GM GMCH integrated TV interface supports HDTV

### Audio Interface

• Chipset	Intel® 82801FBM ICH6-M
• Interface	Intel® HD Audio

### Ethernet

• LAN	Marvell 88E8053
• Ethernet Interface	1000 Base-T Gigabit Ethernet Compatible

### Mechanical & Environmental

• Power Requirement	+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)

## Ordering Information

- **ESM-2850**  
Intel® µFC-PGA 478 / µFC-BGA 479 Pentium® M / Celeron® M COM Express Module
  - **EEV-EX11** P.1-8  
COM Express Carrier Board for Evaluation
  - **ACC-HSP-2850-1R**  
Heat Spreader for ESM-2850 Series with PGA Type, 95 x 125 x 11 mm
  - **ACC-HSP-2850-2R**  
Heat Spreader for ESM-2850 Series with BGA Type, 95 x 125 x 11 mm
- Note: Cable kit not included