

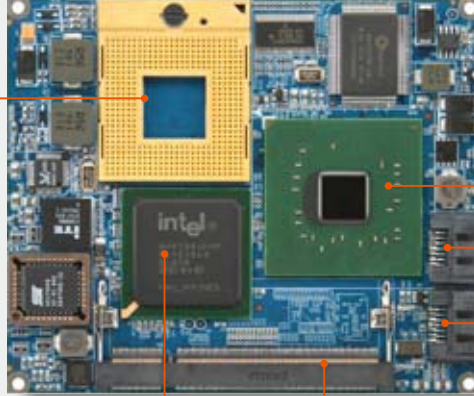


# ESM-945ETX

Intel® 945GME Core™ Duo / Core™ 2 Duo / Celeron® M ETX Module



Supports 65nm Intel®  
µFC-PGA 478 /  
µFC-BGA 479  
Core™ 2 Duo /  
Core™ Duo CPU



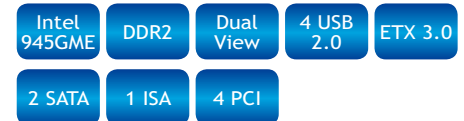
Intel® ICH7-M Chipset    One 200-pin up to 2 GB  
DDR2 SDRAM

Intel® 945GME Chipset

2 SATA

## Features

- Supports 65nm Intel® µFC-PGA 478 / µFC-BGA 479 Core™ 2 Duo / Core™ Duo CPU
- Intel® 945GME / ICH7-M Chipset
- One 200-pin SODIMM up to 2 GB DDR2 SDRAM
- Dual View, 2-CH LVDS
- AC97 Audio
- Realtek 8101E 10/100 Mbps LAN
- 2 SATA, 4 USB 2.0, 2 COM
- 4 PCI, 1 ISA Bus



## Specifications

### System

• CPU	Supports 65nm Intel® µFC-PGA 478 (socket M)/ µFC-BGA 479 Core™ 2 Duo / Core™ Duo CPU, up to 1.86 GHz Note: Available in different CPU speeds by request
• BIOS	Award 512 KB Flash BIOS
• System Chipset	Intel® 945GME GMCH / 82801GBM (ICH7-M)
• System Memory	One 200-pin SODIMM socket supports up to 2 GB DDR2 400/533/667 SDRAM
• Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
• Expansion	4 PCI, 1 ISA Bus

### I/O

• MIO	1 x EIDE (Ultra DMA 100), 2 x SATA, 1 x FDD/LPT, 2 x TTL Serial, 1 x K/B & Mouse
• USB	4 x USB 2.0 ports
• IrDA	115k bps, IrDA 1.0 compliant

### Display

• Chipset	Intel® 945GME
• Display Memory	Intel® DVM T 3.0 Supports up to 224 MB video memory
• Resolution	CRT mode: 2048 x 1536 @ 32 bpp (75 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® 945GME Integrated TV Interface Supports HDTV

### Audio

• Chipset	Intel® 82801GBM (ICH7-M)
• AC97 Codec	Realtek ALC203
• Audio Interface	Line in, Line out & Mic in

### Ethernet

• LAN	Realtek 8101E 10/100 Mbps (PCIe x 1), supports Wake on LAN
• Ethernet Interface	10/100Base-Tx Fast Ethernet compatible

### Mechanical & Environmental

• Power Requirement	+5V
• Power Type	AT / 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-945ETX**  
Intel® 945GME Core™ Duo / Core™ 2 Duo / Celeron® M ETX Module
- **EEV-EX01** P. 1-16  
ETX carrier board for evaluation
- **ETX Carrier Board** P. 1-16 ~ P. 1-20  
Available in various form factors
- **ACC-HSP-945-1R**  
Heat Spreader for ESM-910/945ETX with PGA Type
- **ACC-HSP-945-2R**  
Heat Spreader for ESM-910/945ETX with BGA Type
- **ACC-HSK-945-1R**  
Heatsink for ESM-910/945ETX PGA Type with FAN H=36mm