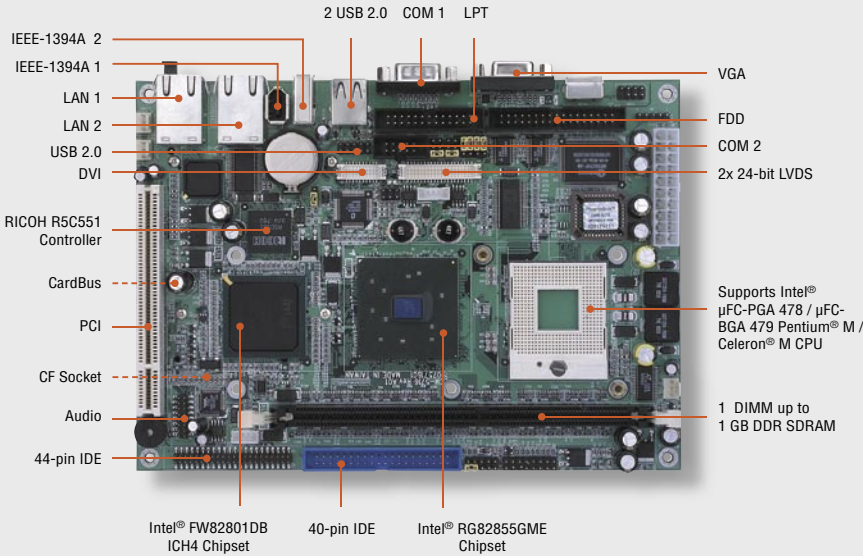




ECM-5716

5.25" Intel® Pentium® M / Celeron® M Mini Module



Features

- Supports 90 nm Intel® μFC-PGA 478 / μFC-BGA 479 Pentium® M / Celeron® M CPU
- Intel® 82855GME Chipset
- One DDR DIMM up to 1 GB SDRAM
- DVI, 2 x 24-bit LVDS, & Dual View
- 5.1 CH Audio
- Intel® 82562ET and 82551ER 10/100Mbps LAN
- Optional Intel® 82540EM Gigabit LAN
- 2 IEEE-1394A, 1 CardBus
- 1 PCI, Type I/II CF
- 2 COM, 4 USB 2.0

DDR

Dual View

48-bit LVDS

DVI

5.1 CH Audio

Gigabit LAN

CardBus

Specifications

System

CPU	ECM-5716: Supports Intel® μFC-PGA 478 Pentium® M / Celeron® M CPU with 0.13μ and 90nm process technology ECM-5716-P11: Onboard Intel® μFC-BGA 479 Pentium® M 1.1 GHz ECM-5716-C6: Onboard Intel® μFC-BGA 479 Celeron® M 600 MHz
FSB	400 MHz
BIOS	Award 512 KB Flash BIOS
System Chipset	Intel® RG82855GME GMCH/FW82801DB ICH4
I/O Chip	Winbond W83627HF-AW
System Memory	One 184-pin socket supports up to 1 GB DDR 200/266/333 SDRAM
SSD	One CompactFlash Type I/II socket
Watchdog Timer	Reset/IRQx; 1 sec.~255 min. and 1 sec. or 1 min./step
H/W Status Monitor	Monitoring system temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
Expansion	One CardBus, one PCI slot

I/O

MIO	4 x EIDE (Ultra DMA 100), 2 x FDD, 1 x LPT, 1 x RS-232, 1 x RS-232/422/485, 1 x K/B, 1 x Mouse
IrDA	115k bps, IrDA 1.0 compliant
USB	4 x USB 2.0 ports
IEEE-1394A	RICOH R5C551 card bus/1394A host controller supports 2 x IEEE-1394A ports

Display

Chipset	Intel® RG82855GME GMCH integrated Extreme Graphics 2 controller
Display Memory	Intel® DVM T 2.0 supports up to 64 MB video memory
Resolution	CRT mode: 2048 x 1536 @ 16 bpp (75 Hz) LCD/Simultaneous mode: 2048 x 1536 @ 16 bpp (75 Hz)
VGA/LCD Interface	AGP 4X VGA/LCD interface

LVDS	Intel® RG82855GME supports dual-channel 24-bit LVDS panels
DVI	Chrontel CH7301C DVI transmitter

Audio

Chipset	Intel® 82801DB ICH4
AC97 Codec	VIA VT1616 supports 5.1 CH Audio
Audio Interface	Mic in, Line in, CD Audio in, Line out, Rear out and Center/Subwoofer out

Ethernet

Chipset	Intel® 82562ET and Intel® 82551ER
Ethernet Interface	IEEE 802.3u 100Base-Tx Fast Ethernet compatible
Remote Boot ROM	Optional built-in boot ROM in Flash BIOS

Gigabit (Optional)

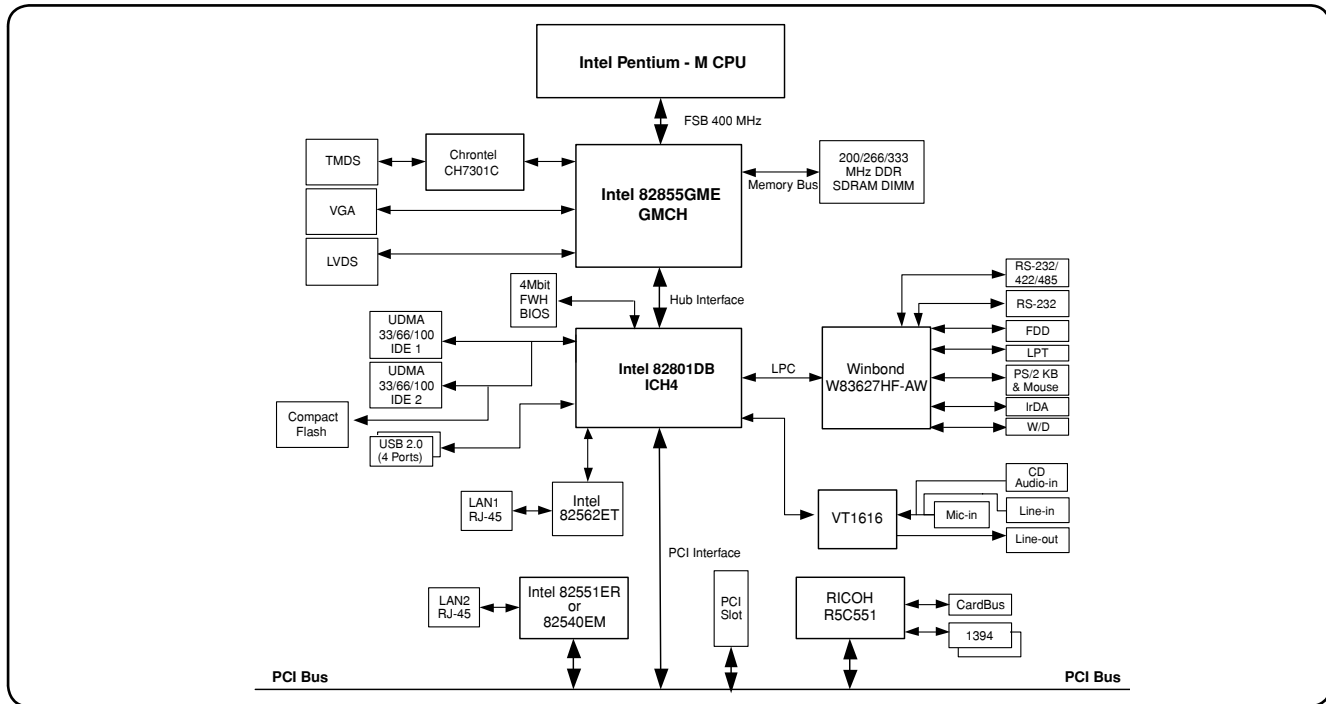
Chipset	Intel® 82540EM
Ethernet Interface	IEEE 802.3 1000Base-T Fast Ethernet compatible

Mechanical & Environmental

Power Requirement	+5 V @ 2.66 A, +3.3 V @ 2.79 A (with Intel® Pentium® M 1.1 GHz & 256 MB DDR SDRAM)
Power Type	ATX
Operating Temperature	0~60°C (32~140°F)
Operating Humidity	0%~90% relative humidity, noncondensing
Size (L x W)	8" x 5.75" (203 mm x 146 mm)
Weight	0.88 lbs (0.4 Kg)



Block Diagram



Intel® 855GME Extreme Graphics 2 Controller

The Intel® RG82855GME chipsets feature the newly enhanced Intel® Extreme Graphics 2, offering architectural enhancements for realistic 3D and 2D graphics and an improved balanced memory management architecture for optimal system performance.

Enhanced Rapid Pixel and Texel Rendering (RPTR)

Speeds-up visual effects without affecting system performance. Results are sharp images, fast rendering, smooth motion and amazing graphics details.

Dynamic Video Memory Technology v2.0 (DVMT)

Provides efficient and optimized usage of system memory for graphics. Graphics memory is allocated in system memory as needed to balance memory usage among the operating system, applications, and graphics.

Zone Rendering 2 (ZR2) technology

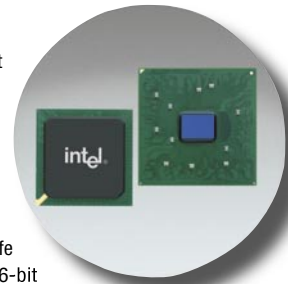
Unique technology for drawing 3D scenes that optimizes performance between graphics and system functions.



Left: Based on ECM-5716, Evalue's EES-5716 is targeted at industrial automation, security control and medical appliances.

Intelligent Memory Management (IMM)

Provides optimized memory management for dual channel memory interface and faster Front-side Bus (FSB) to optimize both graphics and system performance using shared system memory.



The Extreme Graphics 2 core supports the latest 2D and 3D APIs, delivering real-life environment and character effects. A 256-bit internal path enables up to four textures per pixel on a single pass for super light maps, atmospheric effects, and more realistic surface details. Flexible display capabilities enhance the personal computing experience, offering significant benefits for applications requiring 32bpp and higher display resolution.

Ordering Information

- **ECM-5716**
5.25" Intel® Pentium® M / Celeron® M Mini Module with VGA, Dual LVDS, DVI, 5.1 CH Audio, Dual LAN, CF, CardBus, PCI, 4 USB 2.0, & 2 IEEE-1394A
- **ECM-5716-P11**
Same as above, but with Intel® Pentium® M 1.1 GHz
- **ECM-5716-C6**
Same as above, but with Intel® Celeron® M 600 MHz
- **EES-5716 P. 10-6**
Intel® Pentium® M / Celeron® M Mini PC with VGA, LCD, Audio, Dual LAN, PCI, 2 COM, 4 USB 2.0, & IEEE-1394A
- **ACC-CFC-xx**
CompactFlash Card (xx = Capacity, Capacity Option: 8, 16, 32, 64, 128, 256, 512 MB)

SOM
3.5"
5.25"
MB
PC/104
FS
HS
IPC
NA
Barebone
PPC
DVR
APPX