

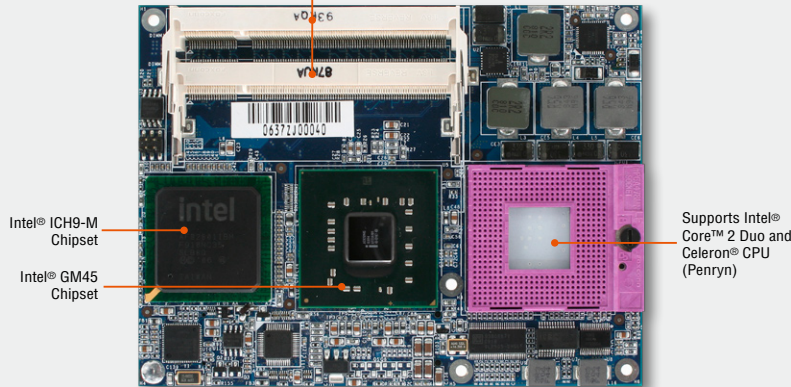


# ESM-GM45

## Intel® Core™ 2 Duo/ Celeron® M COM Express Module with Intel® GM45 + ICH9-M Chipset



Two 200-pin SODIMM up to 4GB DDR2 SDRAM



### Features

- Supports Intel® Core™ 2 Duo and Celeron® M CPU (Penryn)
- Intel® GM45/ ICH9-M Chipset
- Two 200-pin SODIMMs Up to 4GB DDR2 667/ 800 SDRAM
- Dual View, Dual-channel LVDS
- Intel® High Definition Audio
- Intel® 82583V Gigabit Ethernet
- 4 PCI, 4 PCIe1, 1 PCIe16, 4 SATA, 8 USB, 8-bit GPIO

Intel® GM45	Dual View	GbE	4 PCI	4 PCIe1
1 PCIe16	4 SATA	8 USB	8 GPIO	

### Specifications

#### System

• CPU	Socket mPGA479M Support Intel® Core™ 2 Duo/ Celeron® M CPU (Penryn)
• BIOS	Award 8Mbit Flash BIOS
• System Chipset	Intel® GM45/ ICH9-M
• System Memory	Two 200-pin SODIMM Sockets Up to 4GB DDR2 667/ 800 SDRAM
• Expansion	4 x PCI (PCI Rev. 2.3 Compliant), 4 x PCIe1, 1 x PCIe16

#### I/O

• MIO	1 x EIDE (Ultra DMA 100), LPC, SMBus/ I <sup>2</sup> C Bus, 4 x SATA
• USB	8 x USB 2.0
• DIO	4-bit GPI and 4-bit GPO

#### Display

• Chipset	Intel® GM45 Integrated
• Display Memory	Intel® DVMT 5.0
• Resolution	CRT Mode: 2048 x 1536 @ 60Hz LCD/ Simultaneous Mode: 1600 x 1200 @ 75Hz
• Multiple Display	CRT + LVDS
• LVDS Interface	Dual-channel 18/ 24-bit LVDS

#### Audio Interface

• Chipset	Intel® ICH9-M
• Audio Interface	Intel® High Definition Audio

#### Ethernet

• LAN	Intel® 82583V Gigabit Ethernet, Supports Wake on LAN
• Ethernet Interface	1000 Base-Tx Gigabit Ethernet Compatible

#### Mechanical & Environmental

• Power Requirement	+12V, +5Vsb
• ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
• Power Type	AT/ ATX (+5Vsb is Required for AT Input)
• Operating Temperature	0 ~ 60°C (32 ~ 140°F)
• Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
• Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
• Size (L x W)	5" x 3.7" (125mm x 95mm)
• Weight	0.44 lbs (0.2kg)

### Ordering Information

- **ESM-GM45**  
Intel® Core™ 2 Duo/ Celeron® M CPU COM Express Module with Intel® GM45 + ICH9-M Chipset
- **EEV-EX13**  
COM Express Carrier Board for Evaluation
- **ACC-HSK-2858-1R**  
Heatsink with Fan for ESM-GM45

- 1 Embedded System
- 2 ETX/XTX/COM Express
- 3 3.5" SBC
- 4 EPIC
- 5 5.25" SBC
- 6 PC/104
- 7 ATX
- 8 Micro ATX
- 9 Mini ITX
- 10 Nano ITX
- 11 ACP
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