



### Features

- Supports 45nm Intel® μFC-PGA/ BGA Socket-P Core™ 2 Duo CPU
- Intel® GM45/ ICH9-M Chipset
- Two SODIMMs Up to 4GB DDR2 SDRAM
- Intel® Graphic Media Accelerator HD4500
- Intel® 82574L & Intel® 82567LM Gigabit Ethernet
- Realtek ALC888 7.1-CH Audio, 6W AMP
- 1 CF, 1 PCIe16, 4 SATA II, 6 COM, 2 CCTalk, 8 USB, 16-bit GPIO
- iAMT 4.0



### Specifications

#### System

• CPU	Supports 45nm Intel® μFC-PGA/ BGA Socket-P Core™ 2 Duo CPU (Penryn)
• BIOS	Award 2MB SPI Flash ROM
• System Chipset	Intel® 82GM45/ 82801IBM (ICH9-M)
• I/O Chip	Winbond W83627DHG
• System Memory	Two 200-pin SODIMM Sockets Support Up to 4GB DDR2 667/ 800 SDRAM
• SSD	One Compact Flash Type I/II Socket
• Watchdog Timer	Reset: 1sec. ~ 255min. and 1sec. or 1min./step
• RTC	2 Sets
• Battery	1 for System

#### I/O

• MIO	1 x PS/2 Keyboard, 1 x PS/2 Mouse
• USB	8 x USB 2.0
• Serial Port	1 x RS-232/ 482/ 485, 3 x RS-232, 2 x RS-232/ CCTalk
• SATA	4 x SATA II
• GPIO	16-bit Programmable GPIO (DIP Switch)
• Expansion	1 PCIe16 Slot

#### Audio

• Chipset	Intel® ICH9-M Integrated
• AC97 Codec	Realtek ALC888 Supports 7.1-CH with 6W Amplifier

#### Display

• Chipset	Intel® GM45 Integrated
• Display Memory	Intel® DVMT 5.0
• Resolution	CRT Mode: 2048 x 1536
• Dual Display	CRT + LVDS
• LVDS	2-CH 18/24-bit LVDS
• VGA Ports	Single VGA External Ports
• LVDS	Through ADD2 LVDS Card
• DVI-D	Through ADD2 DVI Card
• Secondary VGA	Through ADD2 VGA Card

#### Ethernet

• LAN 1	Intel® 82574L Gigabit Ethernet, Supports Wake on LAN
• LAN 2	Intel® 82567LM Gigabit Ethernet, Supports Wake on LAN
• Ethernet Interface	10/ 100/ 1000 Base-Tx Gigabit Ethernet Compatible

#### Mechanical & Environmental

• Power Requirement	+12V/ +5V
• ACPI	APMI 1.2, Support ACPI
• Power Type	ATX
• Operating Temperature	0 ~ 60°C (32 ~ 140°F)
• Operating Humidity	0 ~ 90% Relative Humidity, Non-condensing
• Size (L x W)	6.7" x 6.7" (170mm x 170mm)
• Weight	0.44lbs (0.2kg)

### Ordering Information

#### • EMX-GM45E-A1R

Intel® Core™ 2 Duo Mini ITX Motherboard with Intel® GM45 + ICH9-M Chipset and w/ VGA, 2-CH LVDS, 7.1-CH Audio, 6W AMP, Dual GbE, CF, 1 PCIe16, 8 USB, 4 SATA II, 6 COM, 2 CCTalk, 16-bit GPIO