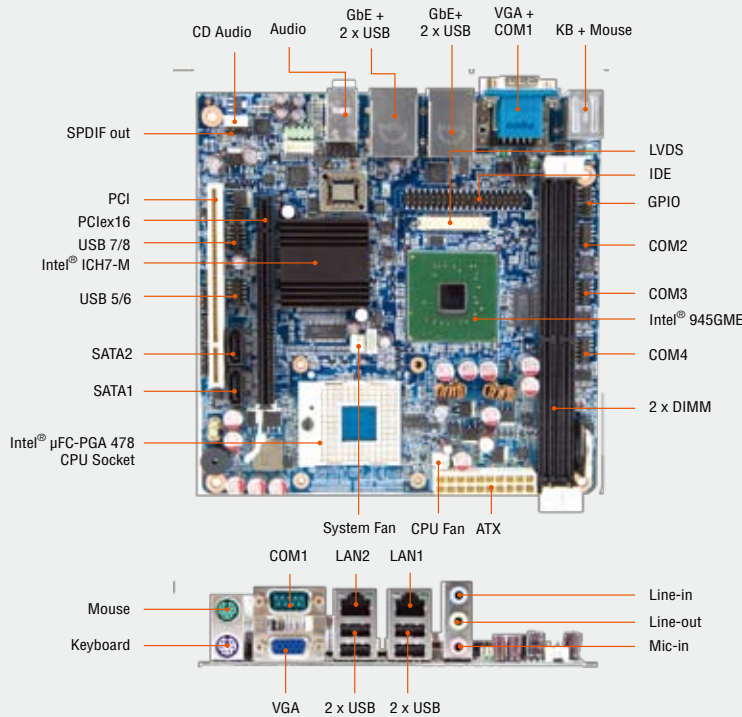




EMX-945GM2

Intel® 945GME Core™ 2 Duo Mini ITX Motherboard



Features

- Supports 65nm Intel® Core™ 2 Duo / Core™ Duo / Core™ 2 Solo / Core™ Solo Mobile CPU
- Intel® 82945GME / ICH7-M Chipset
- Two DIMMs up to 4GB 2-CH DDR2 533 / 667 SDRAM
- Dual View, 2-CH LVDS
- Intel® Graphics Media Accelerator 950
- Realtek ALC888 Supports 5.1+2-CH Audio Streams, 6W AMP
- Dual Marvell 88E8053 Gigabit Ethernet
- 1 PCIe16, 1 PCI 2.2, 1 Mini PCI, CF, 2 SATA
- 4 COM (2 powered COM), 8 USB, 8-bit GPIO
- PCIe16 Slot Supports ADD2 VGA/DVI/LVDS/HDMI Card

Intel 945GME	Intel GMA 950	Dual View	2 LVDS	2 Audio Streams
2 GbE	PCIe16	PCI	Mini PCI	CF
2 SATA	4 COM	Powered COM	8 USB	8 GPIO

Mini ITX

System

CPU	Supports Intel® µFC-PGA 478 Core™ 2 Duo / Core™ Duo / Core™ 2 Solo / Core™ Solo with 65nm process technology
FSB	533/667 MHz
BIOS	Award 4 Mb Flash BIOS
System Chipset	Intel® 82945GME GMCH/82801GM ICH7-M DH
I/O Chip	Winbond W83627EHG-A
System Memory	Two 240-pin DIMM sockets support up to 4 GB Dual Channel DDR2 533/667 SDRAM
SSD	One CompactFlash Type I/II socket
Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
H/W Status Monitor	Monitoring CPU temperature, voltage, and fan status with auto throttling control
Expansion	One PCIe16, One PCI slot (PCI Rev. 2.2 compliant), One Mini PCI
S3	S3 Support
SmartFan Control	Yes

I/O

MIO	1 x EIDE (Ultra DMA 100), 4 x RS-232, (COM1, 2 with Power output), 2 x SATA, 1 x K/B, 1 x Mouse
IrDA	115k bps, IrDA connector (1.0 compliant)
USB	8 x USB 2.0
DIO	8-bit General Purpose I/O for DI and DO (Smbus)

Display

Chipset	Intel® 82945GME GMCH integrated Graphics Media Accelerator 950
Display Memory	Intel® DVMT 3.0 supports up to 224 MB shared video memory
Resolution	2048 x 1536 @ 32 bpp (85 Hz)
Dual Display	CRT + LVDS
LVDS	2-CH 18/24-bit LVDS
DVI	Through ADD2 DVI Card
HDMI	Through ADD2 HDMI Card
2nd VGA	Through ADD2 VGA Card
2nd LVDS	Through ADD2 LVDS Card

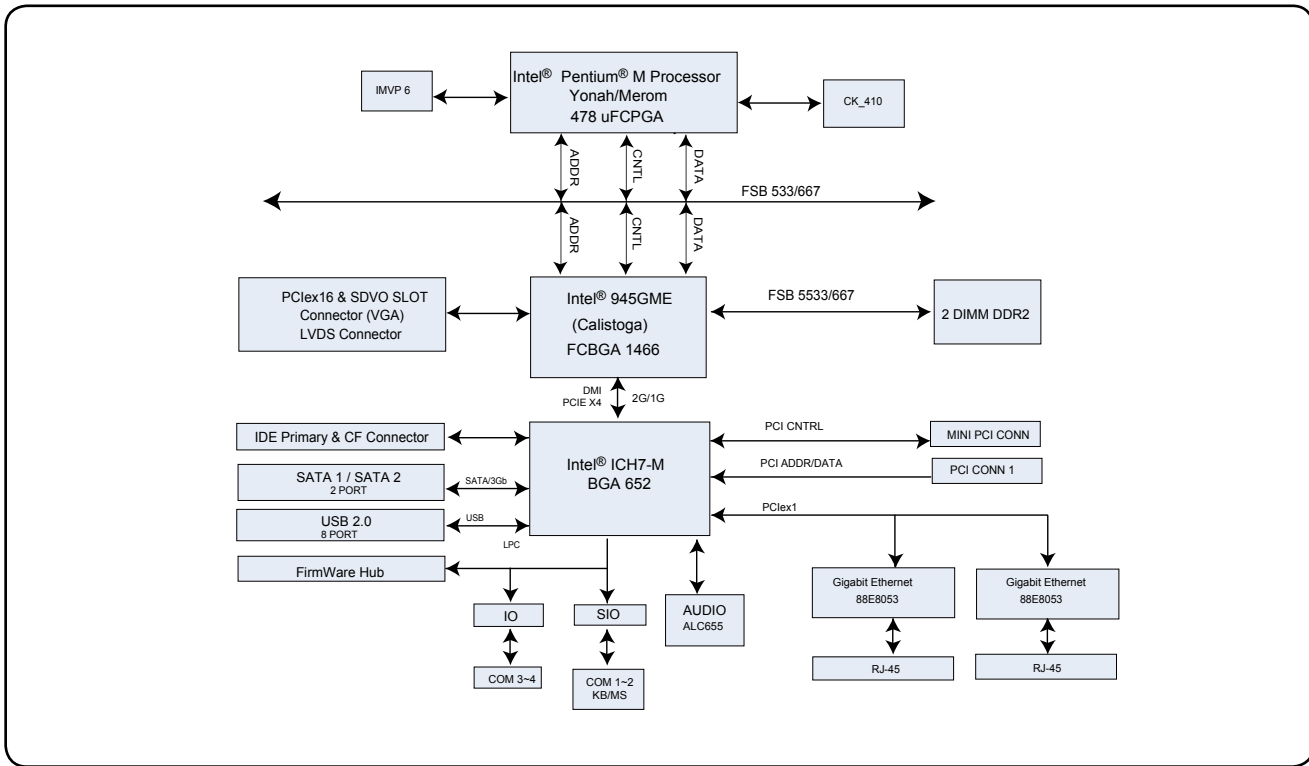
Audio

AC97 Codec	Realtek ALC888 high-definition Audio Codec supports 5.1+2-CH independent audio streams
Audio Interface	Mic in, Line in, CD Audio in, Line out
Audio Amplifier	TPA3005D2 6W (per front channel) stereo amplifier

Ethernet

LAN 1	Marvell 88E8053 Gigabit Ethernet
LAN 2	Marvell 88E8053 Gigabit Ethernet

Block Diagram



1
ATX

2
Micro
ATX

3
Mini
ITX

4
Nano
ITX

Rear Panel I/O Port

- 1 x PS/2 Keyboard
- 1 x PS/2 Mouse
- 1 x RS-232 (with 5V/12V output)
- 1 x VGA port
- 2 x RJ-45 port
- 4 x USB 2.0/1.1
- Audio I/O (3 jacks)

Internal I/O Connector

- 2 x USB connectors support 4 USB ports
- 1 x 20-pin ATX Power connector
- 1 x 40-pin IDE connector for two devices
- 3 x COM connector (COM2 with 5V/12V output)
- 2 x SATA connectors
- 1 x System panel connector
- 1 x CD-In connector
- 1 x SPDIF out connector
- 1 x SMBus management connector
- 1 x LVDS connector
- 1 x CPU Fan connector
- 2 x 2x3-pin connector support 8-Bit GPIO via SMBus PCA9554 Controller (optional)

Mechanical & Environmental

Power Type	ATX
Operating Temperature	0~60°C (32~140°F)
Operating Humidity	0%~90% relative humidity, non-condensing
Size (L x W)	6.69" x 6.69" (170 mm x 170 mm)
Weight	0.88 lbs (0.4 Kg)

5
ACP

6
System

7
Accessory

Ordering Information

EMX-945GM2-A1R Intel® 945GME Core™ 2 Duo Mini ITX Motherboard with VGA, LVDS, Audio, Dual GbE, CF, PCIex16, PCI, Mini PCI & 8 USB w/ SATA cable, IDE cable, Bracket, CD driver