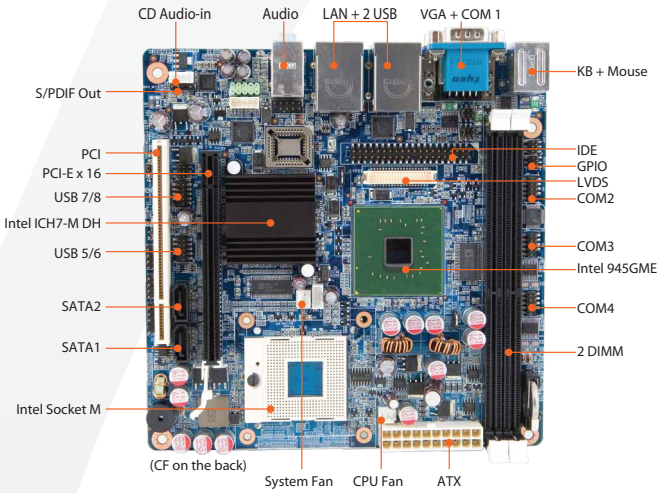
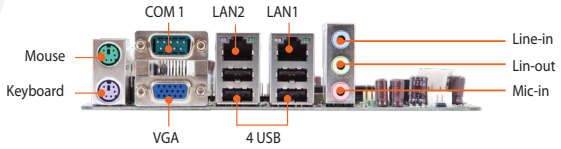
Mini-ITX Motherboard

MX945GM2

Intel® 945GME with Core™ 2 Duo Mini-ITX Motherboard





Features

- Socket M supports Intel® Core™ 2 Duo FSB 667/ 533MHz CPU
- Intel® 945GME + ICH7-M DH Chipset
- Two 240-pin DDR2 DIMM 533/ 667MHz up to 4GB
- Intel GMA950 supports dual display function : VGA + LVDS
- Realtek ALC888, 5.1 + 2 Channel HD Audio
- Dual Marvell 88E8053 Gigabit LAN
- 1 Mini PCI-E, 1 PCI-E x 16, 1 PCI, 1 CF
- 4 COM RS-232, 8 USB 2.0, 2 SATA II
- 8-bit GPIO embedded

Intel GMA 950	Dual Display	LVDS	Dual GbE LAN
Mini PCI-E	PCI-E x 16	PCI	CF
Powered COM	8-bit GPIO	3+3W AMP	5.1+2 CH HD Audio

Specifications

System

CPU	Intel® Socket M supports Core™ 2 Duo/ Core™ Duo / Core™ 2 Solo/ Core™ Solo with 65nm process technology
FSB	533/667 MHz
BIOS	Award 8Mb FWH BIOS
System Chipset	Intel® 945GME + ICH7-M DH Chipset
I/O Chip	Winbond W83267DHG-A
System Memory	Two 240-pin DIMM sockets support up to 4GB DDR2 533/ 667 SDRAM
SSD	One CompactFlash Type I/II socket
Watchdog Timer	Reset : 1 to 255 sec/min per step
H/W Status Monitor	Monitoring CPU temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
Expansion	1 Mini PCI, 1 PCI-E x 16, 1 PCI (PCI Rev. 2.2 compliant)
Power State	S1, S3, S4, S5
Wake up on LAN or Ring	LAN (PXE)
SmartFan Control	Yes, Speed Cruise Mode

I/O

MIO	1 IDE, 2 SATA II, 4 COM RS-232 with Power (5V/12V), 1 PS/2 Keyboard, 1 PS/2 Mouse
USB	8 USB 2.0
GPIO	PCA9554 supports 8-bit General Purpose I/O for 4-bit DI and 4-bit DO

Display

Chipset	Intel 945GME integrated Graphics Media Accelerator 950
Display Memory	Intel DVMT 3.0 supports 224 MB video memory
Resolution	2048 x 1536 (@ 85 Hz)
Dual Display	VGA + LVDS
VGA	On board
LVDS	Intel 945GME supports 18-bit dual channel LVDS/ 24-bit single channel LVDS

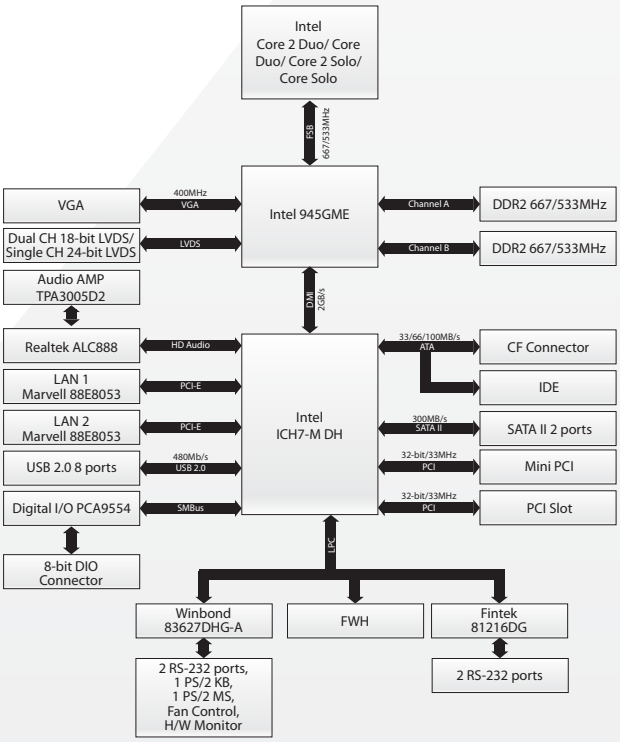
Audio

Audio Codec	Realtek ALC888, 5.1 + 2 CH HD Audio
Audio Interface	Line-in, Line-out, Mic-in
Audio Amplifier(W)	3+3W, TPA3005D2 Stereo

Ethernet

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

Block Diagram



Ordering Information

MX945GM2
90I-945GM2-10000B2
MX945GM2 R10 MPGA 478M

Product Offering

until 2014

Packing List

COM Cable w/o Bracket	x 2
IDE Cable	x 1
SATA Data Cable	x 2
SATA Power Cable	x 2
I/O Shield	x 1
Driver CD	x 1
Startup Manual	x 1

Optional Accessory

13GS0700090A11	Socket 478 CPU Cooler
14GS0300020V04	USB Cable w/ Bracket
14GS0300021V04	USB Cable w/o Bracket

Back Panel I/O Port

1 PS/2 Keyboard
1 PS/2 Mouse
1 COM RS-232 Port
1 VGA Port
2 LAN RJ45 Ports
4 USB Ports
Audio I/O (3 jacks)

Internal I/O Connector

2 USB Connectors support 4 USB Ports
1 IDE Connector
3 COM RS-232 Connectors
2 SATA Connectors
1 System Panel Connector
1 CD-in Connector
1 S/PDIF Out Connector
1 SM Bus Management Connector
1 LVDS Connector
1 CPU Fan Connector
1 Digital I/O Header

Mechanical & Environmental

Power Requirement	+12V 3.09A	+5V 2.44A	+3.3V 0.86A	5VSB 0.75A
Power Type	ATX			
Power Connector	1 20-pin ATX Power Connector			
Operating Temperature	0 to 60°C (32 to 140°F)			
Operating Humidity	0% to 90% relative humidity, non-condensing			
Size (L x W)	6.69" x 6.69" (170 mm x 170 mm)			
Weight	0.88lbs (0.4Kg)			

** The product information and specifications are subject to change without prior notice.
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