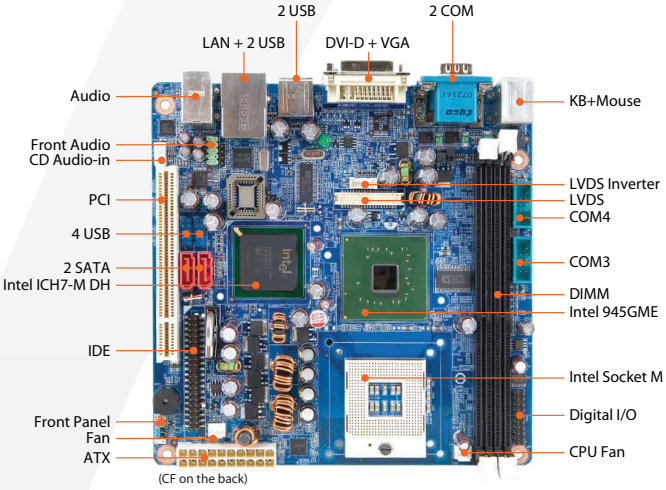
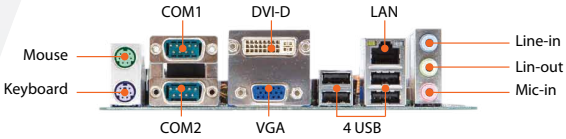
Mini-ITX Motherboard

IX945GME3

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 : DVI-D, LVDS, VGA
- Realtek ALC888, 5.1 + 2 Channel HD Audio
- Realtek RTL8111B Gigabit LAN
- 1 PCI supports 3 PCI Master
- 4 COM RS-232, 8 USB 2.0, 2 SATA II, 1 CF
- 16-bit GPIO embedded

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

Specifications

System

CPU	Intel® Socket M supports Core™ 2 Duo/Core™ Duo / Core™ 2 Solo/ Core™ Solo with 65nm process technology
FSB	533/677 MHz
BIOS	Award 8Mb FWH BIOS
System Chipset	Intel® 945GME + ICH7-M DH Chipset
I/O Chip	Winbond W83627DHG-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 PCI Slot (PCI Rev. 2.2 compliant) supports 3 PCI Master
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	PCA9555 supports 16-bit General Purpose I/O for 8-bit DI and 8-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 (@ 60Hz)
Dual Display	VGA + LVDS, VGA + DVI-D, LVDS + DVI-D
VGA	On board
LVDS	Intel 945GME supports dual channel 18/24-bit LVDS
DVI	Chrontel CH7307C supports DVI-D up to 165M pixel/sec

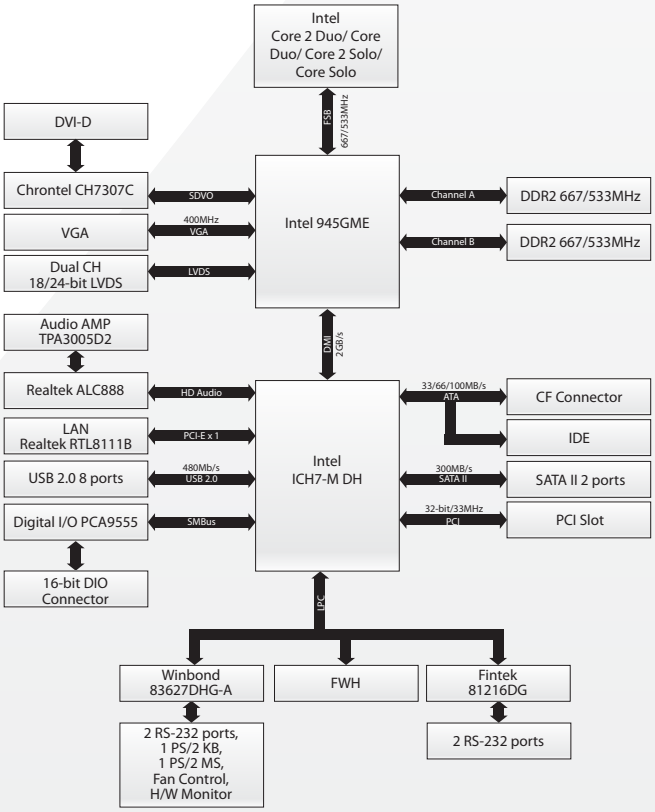
Audio

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	Realtek RTL8111B Gigabit LAN

Block Diagram



Ordering Information

IX945GME3
90I-945GME3-10000B2
IX945GME R10 MPGA 478M

Product Offering

until 2014

Packing List

COM Cable w/o Bracket	x 1
IDE Cable	x 1
SATA Data Cable	x 1
SATA Power Cable	x 1
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
2 COM RS-232 Ports
1 DVI-D Port
1 VGA Port
1 LAN RJ45 Port
4 USB Ports
Audio I/O (3 jacks)

Internal I/O Connector

2 USB Connectors support 4 USB Ports
1 IDE Connector
2 COM RS-232 Connectors
2 SATA Connectors
1 Front Panel Audio Connector
1 Audio Amplifier Connector
1 System Panel Connector
1 LVDS Connector
1 Inverter Power Connector
1 CPU Fan Connector
1 System Fan Connector
1 Digital I/O Header

Mechanical & Environmental

Power Requirement	+12V 5.47A	+5V 1.80A	+3.3V 473mA	5VSB 1.64A
Power Type	ATX			
Power Connector	1 20-pin ATX Power Connector			
Operating Temperature	0 to 60°C (32 to140°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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