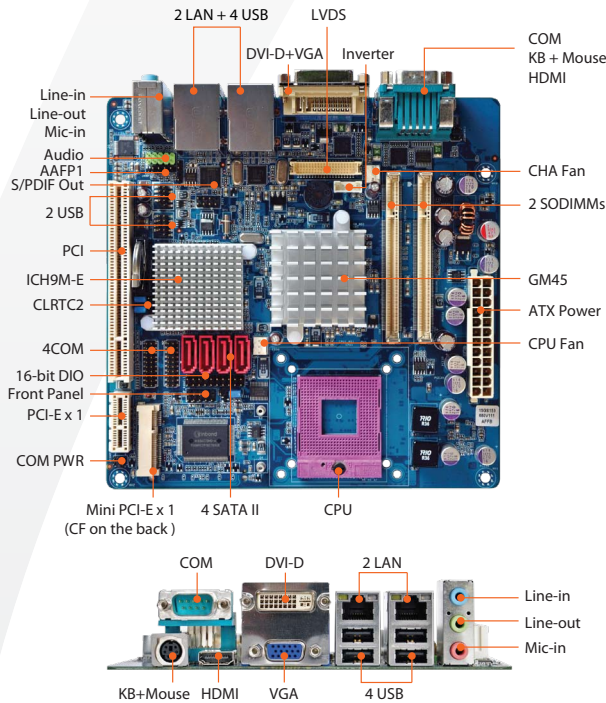


IX45GM2

Intel® GM45 Socket P Core™2 Quad Mini-ITX Motherboard



Features

- Supports Intel® Socket P Core™2 Quad/ Core™2 Duo/ Celeron® M 45nm CPU
- Intel® GM45 + ICH9M-E Chipset
- Two 200-pin SODIMMs up to 4GB dual channel DDR2 800MHz SDRAM
- Intel Integrated Graphics 4500MHD supports 1080P High Definition video applications
- Multiple Display I/O supports versatile Dual Display Functions : VGA/DVI/HDMI/LVDS
- Realtek ALC888, 5.1 + 2 CH with 2 independent HD Streaming Audio
- Intel 82567LM GbE LAN, Intel 82574L PCI-E GbE LAN for 2nd LAN
- 1 Mini PCI-E, 1 PCI-E x 1, 1 CF socket, 1 PCI 2.3
- 5 COM, 8 USB, 4 SATA II
- TMP 1.2, AMT 4.0 & GPIO functions embedded

Intel GMA 4500	Dual Display	HDMI	LVDS
DVI	Dual Intel GbE LAN	Mini PCI-E	PCI-E x 1
ATX Power	GPIO	TPM 1.2	AMT 4.0

Specifications

System	
CPU	Intel® Socket P supports Core™2 Quad/ Core™2 Duo/ Celeron® M with 45nm process technology
FSB	1066/800/667 MHz
BIOS	AMI 32Mb SPI BIOS
System Chipset	Intel GM45 + ICH9M-E
I/O Chip	Winbond W83627DHG-A
System Memory	Two 200-pin SODIMM sockets support up to 4GB dual channel DDR2 800MHz SDRAM
SSD	One Compact Flash Type I/II Socket (optional)
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-E, 1 PCI-E x 1, 1 PCI 2.3
TPM	Intel Integrated TPM 1.2
Power State	S1, S3, S4, S5
Wake up on LAN or Ring	LAN (PXE)
SmartFan Control	Yes

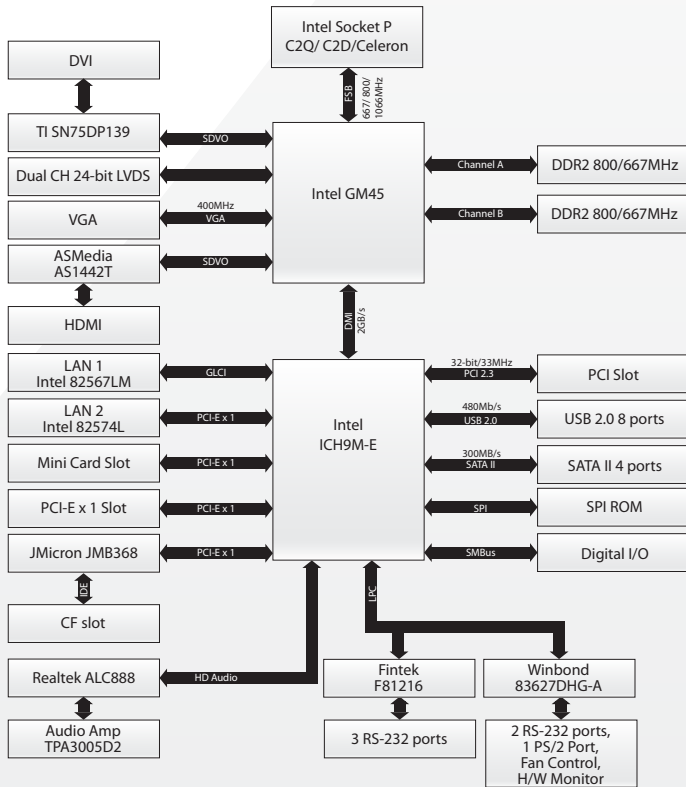
I/O	
MIO	4 SATA II, 5 COM RS-232, 1 PS/2 Keyboard+Mouse
USB	8 USB 2.0
GPIO	PCA9555 supports 16-bit General Purpose I/O for 8-bit DI and 8-bit DO

Display	
Chipset	Intel GM45 Integrated Graphics 4500MHD
Display Memory	Intel DVMT 5.0 supports up to 512MB video memory
Resolution	2048 x 1536 @ 75Hz
Dual Display	VGA+HDMI, LVDS+HDMI, VGA+DVI, LVDS+DVI
HDMI	ASMedia AS1442T supports HDMI
LVDS	Dual channel 24-bit LVDS
DVI	TI SN75DP139 supports DVI-D
LVDS Backlight	5V and 12V

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	Intel 82567LM Gigabit LAN
LAN 2	Intel 82574L PCI-E Gigabit LAN for 2nd LAN (Optional)

Block Diagram



Back Panel I/O Port

- 1 PS/2 Keyboard+Mouse (Through Y-Cable)
- 1 COM RS-232 with 5V/12V Power
- 1 VGA Port
- 1 DVI Port
- 1 HDMI Port
- 4 USB 2.0 Ports
- 2 LAN RJ45 Ports
- Audio I/O (3 jacks)

Internal I/O Connector

- 2 USB Connectors support 4 USB Ports
- 4 COM Port Headers (no box), 1 with 5V/12V Power
- 4 SATA Connectors
- 1 Audio Amplifier Connector
- 1 Front Audio
- 1 Front Panel
- 1 S/PDIF Out
- 1 LVDS Connector
- 1 Inverter Power Connector
- 1 CPU Fan Connector
- 1 System Fan Connector
- 1 Digital I/O Header

Ordering Information

IX45GM2

90I-GM4502-M0000B2
IX45GM2 Mini-ITX Motherboard

Product Offering

until 2016

Packing List

2 Port COM Cable	x1
SATA Data Cable	x1
SATA Power Cable	x1
I/O Shield	x1
Driver CD	x1
Startup Manual	x1

Optional Accessory

14GS0300020V04	USB Cable w/ Bracket
14GS0000063V04	USB Cable w/o Bracket
14GS0000073V04	COM Port Cable

Mechanical & Environmental

Power Requirement	+12V	+5V	+3.3V	5VSB
	4.17A	2.42A	0.76A	1.4A

Power Type ATX

Power Connector 1 24-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)