IX45GM2

Intel® GM45 socket P Core™ 2 Duo / Core™ Duo / Core™ 2 Solo /Core™ Solo mobile CPU Mini-ITX Motherboard

Startup Manual

Packing List

Before you begin installing your single board, please make sure that the following parts have been shipped.

- 1 x Intel GM45 Mini-ITX Motherboard
- 1 x CD-ROM contains the followings:
  - User's Manual in PDF file
  - Drivers
- 1 x COM cable
- 2 x SATA cable
- 2 x SATA Power Cable
- 1 x I/O Shield
- 1 x Startup Manual

Disclaimer and Notice

The manufacturer reserves the right to make changes, without notice, to any product, including circuits and/or software described or contained in this manual in order to improve design and/or performance. The manufacturer assumes no responsibility or liability for the use of the described product(s), conveys no license or title under any patent, copyright, or masks work rights to these products, and makes no representations or warranties that these products are free from patent, copyright, or mask work right infringement, unless otherwise specified. For the detail product information, please refer to user's manual.

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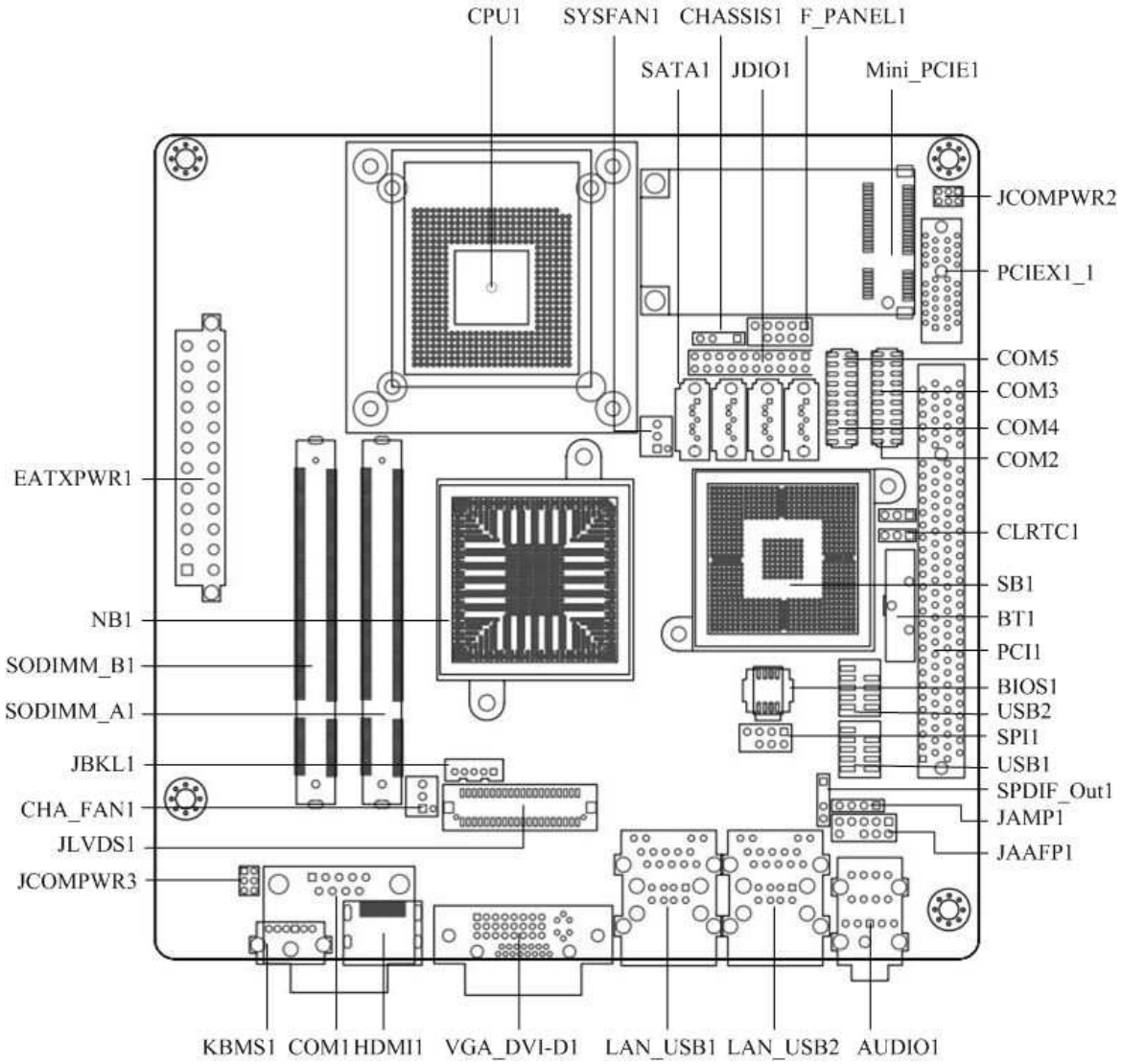
Product Overview



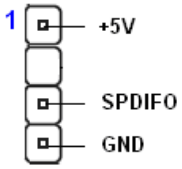
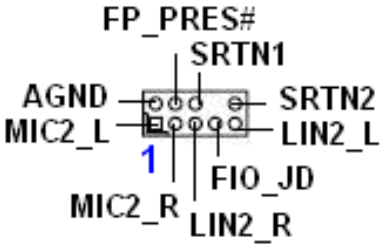
Specifications

System

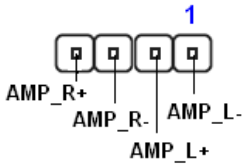
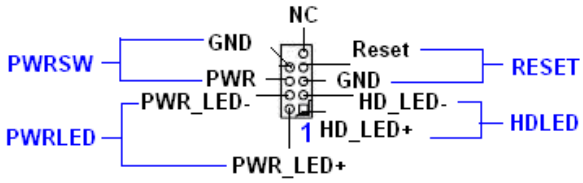
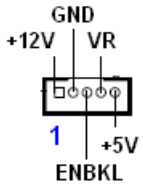
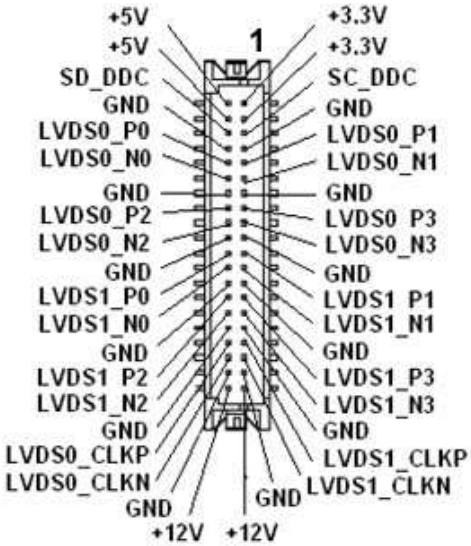
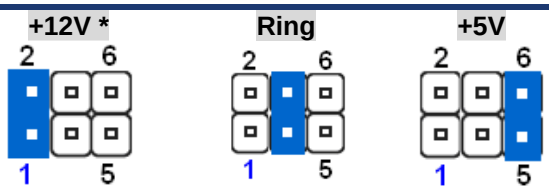
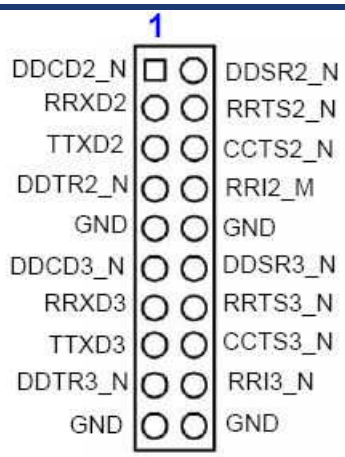
CPU	Supports Intel socket P Core 2 Duo / Core Duo / Core 2 Solo / Core Solo mobile CPU with 45nm process technology
FSB	667/800/1066 MHz
BIOS	AMI 32Mb SPI BIOS
System Chipset	Intel GM45/ICH9M-E
I/O Chipset	Winbond W83627DHG-A
Memory	2 x 200-pin SODIMM socket supports up to 4 GB Dual channel DDR2 533/667 SDRAM
CompactFlash	One CompactFlash Type I/II socket (optional)
Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
H/W Status Monitor	Monitoring CPU temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
Expansion Slots	1 x PCI slot (PCI Rev.2.2 compliant) supports 3 PCI master 1x PCI-E x1 Slot
S3	S3 Support
SmartFan Control	Yes

I/O	
MIO	4 x SATA, 8 x USB, 5 x RS-232, 1 x K/B & Mouse (COM1~2 with power output)
USB	8 x USB 2.0 ports
DIO	8-bit General Purpose I/O for DI and DO
Display	
Chipset	Intel Graphics Media Accelerator 4500MHD
Display Memory	Intel DVMT 5.0 supports 384 MB video memory
Resolution	2048 x 1536 @ 32 bpp(@ 60Hz)
Dual Display	CRT + LVDS, or CRT + DVI-D
LVDS	Dual-channel 24-bit LVDS
DVI	TI SN75DP139 DisplayPort to TMDS transmitter
HDMI	AsMedia 1442T HDMI/ DVI Level Shifter
Audio	
Audio Codec	Realtek ALC888 Audio Codec 5.1+2 CH. with two independent audio stream
Audio Interface	Mic in, Line in, Line out
Audio Amplifier	TPA3005D2 Stereo 5Watt per channel
Ethernet	
LAN1	Intel 82567LM Gigabit Ethernet Controller
LAN2	Intel 82574L PCI-E Gigabit Ethernet Controller (optional)

Jumpers

Label	Function	Note
CLRTC1	**Clear CMOS**	**Normal *** **Clear CMOS**
SPDIF_OUT1		
AAFP1	**Front Panel Audio Connector**	

Connectors

Label	Function	Note
JAMP1	Amplifier Connector	
Panel1	System Panel Connector	
JBKL1	LCD Inverter Connector	
JLVDS1	LVDS Connector	
COMPWR1 COMPWR2	COM1, COM2 RI/+5V/+12V Selection	
COM23 COM45	COM Connector