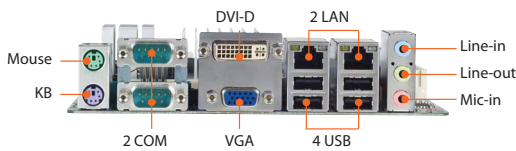
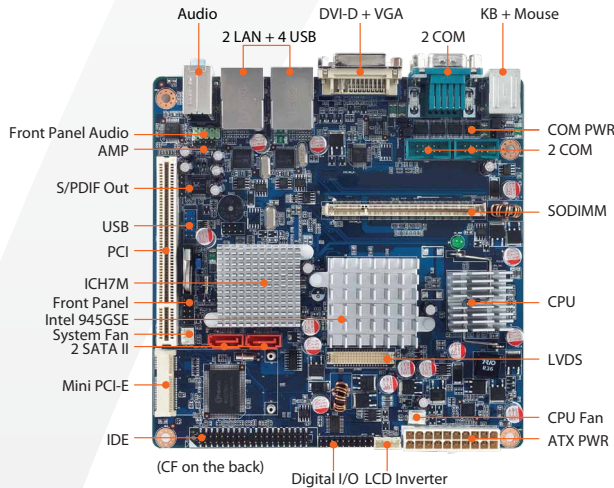


IX945GSE

Intel® 945GSE with Atom™ N270 Processor Mini-ITX Motherboard



Features

- Onboard Intel® 45nm Atom™ N270 Processor
- Intel® 945GSE + ICH7-M Chipset
- One 200-pin SODIMM up to 2GB Single Channel DDR2 533 SDRAM, non-ECC
- Intel® Graphics Media Accelerator 950
- Multiple display interface supports dual display function : DVI-D, LVDS, VGA
- Realtek ALC888, 5.1 + 2 Channel HD Audio
- Dual Realtek RTL8111C Gigabit LAN
- 1 PCI, 1 Mini PCI-E
- 4 COM RS-232, 6 USB 2.0
- 2 SATA II, 1 IDE
- Onboard TPM 1.2

Dual Display	DVI-D	18-bit LVDS	LVDS Backlight
4 COM	Powered COM	Mini PCI-E	CF
TPM	3W + 3W AMP	PCI	Dual GbE LAN

Specifications

System	
CPU	Onboard Intel® 45nm Atom™ N270 Processor
FSB	533 MHz
BIOS	Award 16Mb SPI BIOS
System Chipset	Intel® 945GSE + ICH7-M Chipset
I/O Chip	Winbond W83627DHG-A
System Memory	One 200-pin SODIMM up to 2GB single channel DDR2 533 SDRAM, non-ECC
SSD	One CompactFlash Type I/II socket
Watchdog Timer	Reset : 1 to 255 sec/min per step
H/W Status Monitor	Monitoring temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
Expansion	1 Mini PCI-E, 1 PCI (PCI Rev. 2.3 compliant) supports 3 PCI Master
Power State	S1, S3, S4, S5
TPM	Onboard TPM 1.2 by Infineon SLB9635
Wake up on LAN or Ring	LAN (PXE)
SmartFan Control	Yes
I/O	
MIO	1 IDE, 2 SATA II, 4 COM RS-232, 1 PS/2 Keyboard, 1 PS/2 Mouse
USB	6 USB 2.0
GPIO	16-bit General Purpose I/O for 8-bit DI and 8-bit DO

Display

Chipset	Intel® 945GSE integrated Graphics Media Accelerator 950
Display Memory	Intel® DVMT 3.0 supports 224MB video memory
Max. Resolution	CRT: Supports up to QXGA (2048 x 1536) LVDS: Supports up to UXGA (1600 x 1200)
Dual Display	VGA + DVI, VGA + 18-bit LVDS, DVI + 18-bit LVDS
VGA	Onboard GMA 950 supports CRT resolution up to QXGA
LVDS	Supports dual channel LVDS resolution up to UXGA 18-bit Single/Dual channel
LVDS Backlight	5V and 12V
DVI	Chrontel CH7307C supports DVI-D

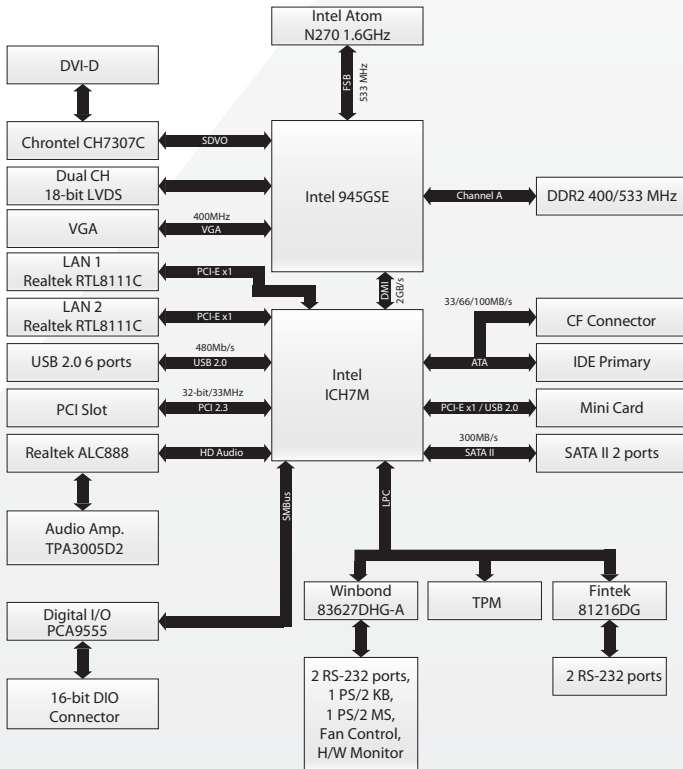
Audio

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

Ethernet

LAN 1	Realtek RTL8111C Gigabit LAN
LAN 2	Realtek RTL8111C Gigabit LAN

Block Diagram



Back Panel I/O Port

- 1 PS/2 Keyboard
- 1 PS/2 Mouse
- 1 VGA Port
- 1 DVI-D Port
- 2 COM RS-232 Ports
- 2 LAN RJ45 Ports
- 4 USB 2.0 Ports
- Audio I/O (3 jacks)

Internal I/O Connector

- 2 COM RS-232 Ports w/ Power
- 1 CPU Fan Connector
- 1 Chassis Fan Connector
- 1 USB Connector supports 2 USB Ports
- 1 LVDS Connector
- 1 LVDS Inverter Connector
- 1 IDE Connector
- 2 SATA Connectors
- 1 Digital I/O Header
- 1 Front Panel Header
- 1 S/PDIF Out Connector
- 1 Audio Amplifier Connector
- 1 Front Audio Connector
- 1 Mini PCI-E
- 1 PS/2 KB+MS Header

Ordering Information

IX945GSE

90I-945GSE-11000B2
IX945GSE R11 Mini-ITX Motherboard

Product Offering

until 2016

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

14GS0000072V04	2 Port COM Cable w/ Bracket
14GS0000073V04	2 Port COM Cable w/o Bracket
14GS0300034V04	2 Port USB Cable w/o Bracket

Mechanical & Environmental

Power Requirement	+12V 1.3A	+5V 1.4A	+3.3V 0.8A	5VSB 0.8A
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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 0.88 lbs (0.4 Kg)