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MI945GSE2

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

SATA

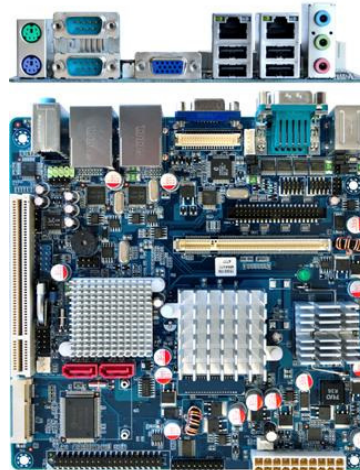
GPIO

Fan
Fanless

Dual View

Dual
Gbit LAN

- Onboard Intel FCBGA8 45nm Atom™ N270 Processor
- Intel® 945GSE + ICH7-M Chipset
- One 200-pin SO-DIMM up to 2GB Single Channel DDR2 533 SDRAM, non-ECC
- Intel® Graphics Media Accelerator 950
- One 24/18 bit Dual Channel LVDS
- Realtek® ALC888, 5.1Channel HD Audio
- Dual Realtek RTL8111C Gigabit LAN
- 1 PCI, 1 Mini PCI-E
- 8 COM, 6 USB 2.0
- 2 SATA II, 1 IDE



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System	
CPU	▶ Onboard Intel FCBGA8 45nm Atom N270 Processor
FSB	▶ 533MHz
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 sec. to 255 min. and 1 sec. or 1 min./step
H/W Status Monitor	▶ Monitoring temperatures, voltages, and cooling fan status. Auto throttling control when CPU overheats
Expansion	▶ 1 PCI (PCI Rev. 2.3 compliant), 1 Mini PCI-E
S3/S4	▶ Yes
TPM	▶ Optional, TPM1.2 (Infineon TPM chip 9635 TT 1.2)
Wake up on LAN or Ring	▶ LAN (PME/RPL)
I/O	
MIO	▶ 1 EIDE, 2 SATA II, 8 RS-232, 1 K/B, 1 Mouse
USB	▶ 6 USB 2.0
DIO	▶ 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 DVM 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+18-bit LVDS or VGA+24-bit LVDS
VGA	▶ On board GMA 950 supports CRT resolutions up to QXGA
LVDS	▶ Supports dual channel LVDS resolutions up to UXGA 18-bit and 24-bit Single/Dual channel
LVDS Backlight	▶ Yes
Power Connector	▶ 1 12V CPU Fan Connector 1 12V Chassis Fan Connector
Audio	
Audio Codec	▶ Realtek ALC888, 5.1 + 2 CH HD Audio
Audio Interface	▶ Mic-in, Line-in, Line-out
Audio Amplifier (W)	▶ Optional, TPA3005D2 Stereo 6 Watt
Ethernet	
LAN 1	▶ Realtek RTL8111C Gigabit LAN
LAN 2	▶ Realtek RTL8111C Gigabit LAN
Back Panel I/O Port	
Back Panel I/O Port	▶ 1 PS/2 Keyboard 1 PS/2 Mouse 1 VGA port 2 COM ports 2 RJ45 ports 4 USB 2.0/1.1 Audio I/O (3 jacks)
Internal I/O Connector	
Internal I/O Connector	▶ 2 COM Ports w/ Power, 4 COM Ports w/o Power 1 20-pin ATX Power Connector 1 CPU Fan Connector 1 Chassis Fan Connector 1 USB Connector supports additional 2 USB Ports 1 24/18-bit LVDS Connector 1 LVDS Inverter Connector 1 IDE Connector 2 SATA II Connectors 1 Digital IO Header 1 Front Panel Header 1 S/PDIF Out Header

- 1 Front Audio Connector
- 1 Mini PCI-E
- 1 PS/2 KB/MS Header

Mechanical & Environmental

- Power Type ▶ ATX
- 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)

Ordering Information

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