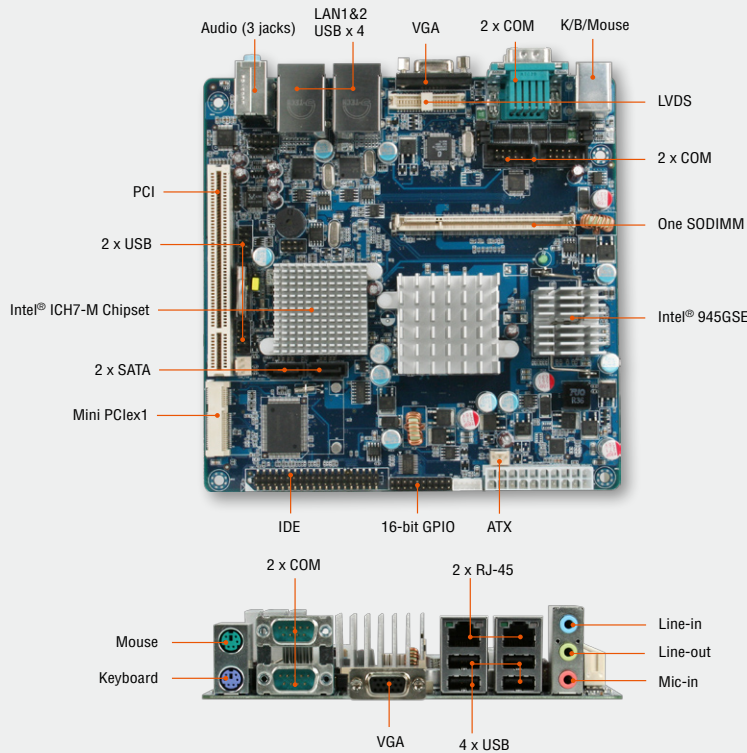




EMX-945GSE

Intel® Atom™ N270 Mini ITX Motherboard with Intel® 945GSE + ICH7-M Chipset



Features

- Supports Intel® XFCBGA 45nm Atom™ N270 1.6GHz Processor
- Intel® 945GSE/ ICH7-M Chipset
- One 200-pin SODIMM Up to 2GB DDR2 533 SDRAM, Non-ECC
- Intel® Graphics Media Accelerator 950
- Dual View, 2-CH LVDS
- DVI for EMX-945GSE-A1-DVIR Only
- 5.1-CH HD Audio, 6W AMP
- Dual Realtek RTL8111C Gigabit Ethernet
- 1 PCI 2.3, 1 Mini PClex1
- 1 CF, 4 COM, 2 SATA, 6 USB, 16-bit GPIO

Intel® 945GSE	2-CH LVDS	5.1-CH Audio	2 GbE	CF
PCI	Mini PCIe	2 SATA	4 COM	6 USB
16-bit GPIO				

Specifications

System

• CPU	Supports Intel® XFCBGA 45nm Atom™ N270 1.6 GHz Processor
• FSB	533MHz
• BIOS	Award 8Mbit SPI BIOS
• System Chipset	Intel® 82945GSE/ 82801GBM (ICH7-M)
• I/O Chip	Winbond W83627DHG-A
• System Memory	One 200-pin SODIMM Up to 2GB DDR2 533 SDRAM, Non-ECC
• SSD	One CompactFlash Type I/II Socket
• Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
• H/W Status Monitor	Monitoring CPU Temperature, Voltage and Fan Status with Auto Throttling Control
• Expansion	1 x PCI (PCI Rev. 2.3 Compliant), 1 Mini PClex1
• TPM	TPM (Infineon SLB 9635 TCG 1.2 Compliant)
• S3/ S4	Yes
• SmartFan Control	Yes (1 x Fan Connector)

I/O

• MIO	1 x IDE, 2 x SATA, 4 x COM, 1 x K/B, 1 x Mouse
• USB	6 x USB 2.0
• GPIO	16-bit General Purpose I/O for DI and DO

Audio

• Audio Chipset	Intel® ICH7-M
• Audio Codec	Realtek ALC888, 5.1-CH HD Audio
• Audio Interface	Mic-in, Line-in, Line-out
• Audio Amplifier	TPA3005D2 6W (Per Front Channel) Stereo Amplifier

Display

• Chipset	Intel® 945GSE GMCH Integrated Graphics Media Accelerator 950
• Display Memory	Intel® DVMT 3.0 Supports Up to 224MB Shared Video Memory
• Resolution	CRT Mode: 2048 x 1536 @ 75Hz LCD Mode: 1920 x 1200 @ 60Hz
• Dual Display	CRT + LVDS
• VGA	Onboard GMA 950, Supports for CRT Resolutions Up to QXGA
• LVDS	2-CH 18-bit LVDS (EMX-945GSE-A1-DVIR) 2-CH 18/24-bit LVDS (EMX-945GSE-A1R)

Ethernet

• LAN 1	Realtek RTL8111C Gigabit Ethernet
• LAN 2	Realtek RTL8111C Gigabit Ethernet

Mechanical & Environmental

• Power Type	ATX
• Operating Temperature	0 ~ 60°C (32 ~ 140°F)
• Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
• Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
• Size (L x W)	6.69" x 6.69" (170mm x 170mm)
• Weight	0.88lbs (0.4Kg)

Ordering Information

- **EMX-945GSE-A1R**
Intel® 945GSE Atom™ N270 Mini ITX Motherboard with 5.1-CH HD Audio, 2-CH LVDS, Dual GbE, PCI, Mini PCIe, CF, 2 SATA, 4 COM, 6 USB, 16-bit GPIO
- **EMX-945GSE-A1-DVIR**
Intel® 945GSE Atom™ N270 Mini ITX Motherboard with 5.1-CH HD Audio, DVI, 2-CH LVDS, Dual GbE, PCI, Mini PCIe, CF, 2 SATA, 4 COM, 6 USB, 8-bit GPIO

- 1 Embedded System
- 2 Oseven Module
- 3 ETX/XTX COM Express
- 4 3.5" SBC
- 5 EPIC
- 6 5.25" SBC
- 7 ATX
- 8 Micro ATX
- 9 Mini ITX
- 10 Nano ITX
- 11 ACP
- 12 Rack Mount System
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