

Mini-ITX motherboard with Intel Atom processor N270, VGA, Audio, 2x Giga Lan, LVDS



Features

- ❖ Intel® Atom™ processor N270 1.6 GHz onboard with FSB 533 MHz
- ❖ Intel® 945GSE + ICH7M chipset
- ❖ Intel® Gen 3.5 integrated graphics controller for VGA and LVDS
- ❖ 8 USB 2.0 ports

Specification

System >>>

CPU	Intel® Atom™ processor N270 1.6 GHz onboard FSB : 533MHz
Chipset	Intel®945GSE + ICH7M
Memory	1 x 240-pin DIMM supports DDR2-400/533 max. up to 2 GB
BIOS	AMI
Watchdog Timer	Generates a system reset internal timer for 1sec/min ~ 255 sec/min
Hardware Monitor	CPU/System temperature, fan speed and onboard DC voltages

I/O Interfaces >>>

Serial ATA	2 x SATA-150 Support RAID 0, 1, 5, 10 and Intel® Matrix Storage Technology
IDE	N/A
SSD	1 x CompactFlash™ type-II
Internal I/O Port	3 x RS-232 (COM 2/3/4); with +5V/+12V powered 1 x RS-232/422/485 (COM 1); with +5V/+12V powered 4 x USB
External I/O Port	1 x PS/2 keyboard 1 x PS/2 mouse 3 x RS-232 1 x VGA 2 x LAN 4 x USB 1 x Audio
SMBus	System Management Bus for advanced monitoring/control interface
Digital I/O	8 channels (4-IN & 4-OUT)

Audio >>>

Audio Codec Interface	AC 97 Codec External MIC-in/Line-out/Speaker-out ports on rear I/O panel
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Display >>>

Graphics	Intel® GMA 950 graphics Core
CRT	Resolutions up to 2048 x 1536 @ 75 Hz
DVI	N/A
LVDS	1 x LVDS; 18/24-bit single channel

Ethernet >>>

Controller Interface	2 x Realtek RTL8111B Gigabit Ethernet RJ-45
iAMT	N/A
Wake On LAN	Yes

Mechanical and Environmental >>>

Form Factor	Mini-ITX
Dimensions	170 mm x 170 mm (L x W)
Operating Temp.	0°C ~ 60°C (32 ~ 140°F)
Storage Temp.	-20°C to 80°C
Relative Humidity	10% to 90%, non-condensed

Power >>>

Power Requirement	Intel® Atom™ N270 1.6 GHz, 1GB DDR2 Max. RMS: +5V_SBY @ 0.223A, +3.3V @ 0.767A, +5V @ 1.644A, +12V @ 0.123A, -12V @ 0.084A
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Ordering Information

Model Number	Description / Configuration
MB-436GGX18	Mini-ITX with Intel Atom processor N270, VGA, Audio, (2) Gigabit Lan, 18-bit LVDS
MB-436GGX24	Mini-ITX with Intel Atom processor N270, VGA, Audio, (2) Gigabit Lan, 24-bit LVDS