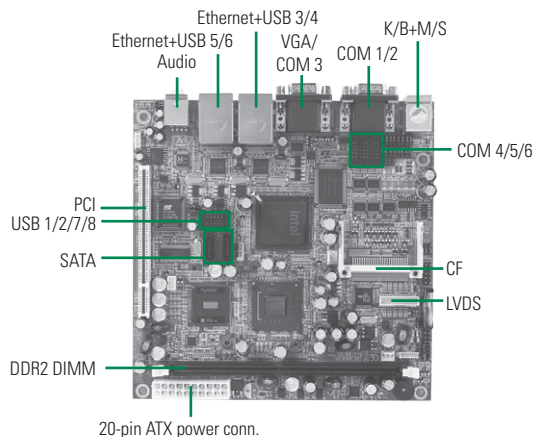


# SBC86836

Intel® Atom™ N270 Mini ITX SBC with Intel® 945GSE + ICH7M Chipset, VGA/LVDS, DualView, 6 COM and Dual LANs



## System

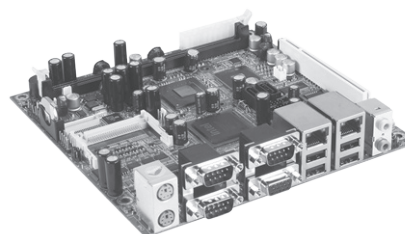
CPU	Intel® Atom™ processor N270 1.6 GHz onboard with FSB 533 MHz
System Memory	1 x 240-pin DIMM supports DDR2-400/533 max. up to 2 GB
Chipset	Intel® 945GSE + ICH7M
BIOS	AMI
SSD	1 x CompactFlash™ type-II
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x PCI for 32-bit PCI supports 2 bus masters
Battery	Lithium 3V/220 mAh
Power Requirements	Intel® Atom™ N270 1.6 GHz, 1 GB DDR2 Max. RMS: +5V_SBY @ 0.223A, +3.3V @ 0.767A, +5V @ 1.644A, +12V @ 0.123A, -12V @ 0.084A
Size	170mm x 170 mm
Board Thickness	1.6 mm
Temperature	0° ~ +60°C (32°F ~ 140°F), operation
Relative Humidity	10% ~ 95% relative humidity, non-condensing

## I/O

MIO	1 x PS/2 keyboard 1 x PS/2 mouse 3 x RS-232 (COM 2/3/4); with +5V/+12V powered 1 x RS-232/422/485 (COM 1); with +5V/+12V powered
SATA	2 x SATA-150
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	2 ports as 10/100/1000Mbps support Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111B
Audio	AC'97 Codec audio as MIC-in/Line-out/Speaker-out with Realtek ALC203
USB	8 x USB 2.0
SMBus	System Management Bus for advanced monitoring/control interface
Digital I/O	8 channels (4-IN & 4-OUT)

## Features

- Intel® Atom™ processor N270 1.6 GHz onboard with FSB 533 MHz
- Intel® Gen 3.5 high performance integrated graphics controller for VGA and LVDS
- 8 USB 2.0 ports



▲ Side view

## Display

Chipset	Intel® GMA 950 graphics core
Memory Size	Intel® DVMT 3.0 compliant
Display Interface	1 x VGA 1 x LVDS; 18-bit single channel (SBC86836VGGGA-N270 w/18-bit LVDS) 1 x LVDS; 18/24-bit single/dual channel (SBC86836VGGGA-N270 w/24-bit LVDS)

## Packing List

Standard		
Quick installation guide, user's manual/utility CD, cable		
Cable		
Part Number	Description	Qty
593826A0000E	SATA signal cables 500 mm	1

## Ordering Information

Standard	
SBC86836VGGGA-N270 w/ 18-bit LVDS	Mini ITX SBC with Intel® Atom™ processor N270, VGA, 18-bit LVDS LCD, 2 10/100/100Mbps Ethernet, audio and PCI expansion
SBC86836VGGGA-N270 w/ 24-bit LVDS	Mini ITX SBC with Intel® Atom™ processor N270, VGA, 24-bit LVDS LCD, 2 10/100/100Mbps Ethernet, audio and PCI expansion

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Systems on Modules

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Embedded SBCs >Nano-ITX

Embedded SBCs >Pico-ITX

Embedded SBCs >PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix