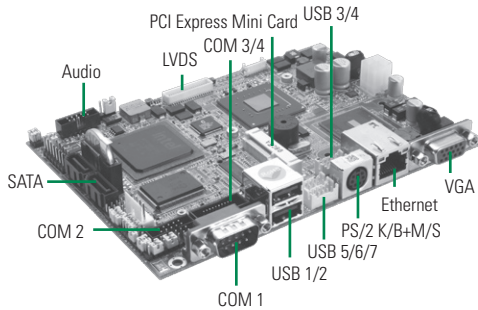


# SBC84833

Intel® Atom™ N270 3.5" Embedded SBC with Intel® 945GSE + ICH7M Chipset, LVDS/VGA, DualView, 4 COM and Single LAN



Fanless Low Power DualView PCIe Mini

## System

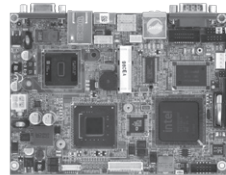
CPU	Intel® Atom™ processor N270 1.6 GHz onboard with FSB 533 MHz
System Memory	1 x 200-pin SO-DIMM supports DDR2-400/533 max. up to 2 GB
Chipset	Intel® 945GSE + ICH7M
BIOS	AMI
SSD	1 x CompactFlash™ type-II
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	1 x PCI Express Mini Card V1.2
Battery	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power ON function supported
Power Requirements	Intel® Atom™ N270 @1.6 GHz, 1GB DDR2 Max. RMS: +12V @ 978mA
Size	146 x 104 mm
Board Thickness	1.6 mm
Operating Temperature	Standard: 0° ~ +60°C (32°F ~ 140°F) Optional: -20°C ~ +70°C (-4°F ~ +158°F)
Relative Humidity	10% ~ 95% relative humidity, non-condensing

## I/O

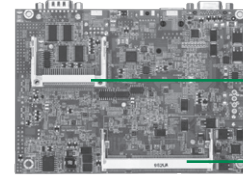
MIO	1 x PS/2 keyboard and mouse 3 x RS-232 (COM 2/3/4); with +5V/+12V powered 1 x RS-232/422/485 (COM 1); with +5V/+12V powered
SATA	2 x SATA-150
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	1 port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111DL
Audio	HD Codec audio as MIC-in/Line-in/Line-out/Speaker-out with Realtek ALC662
USB	7 x USB 2.0
SMBus	System Management Bus for advanced monitoring/control
Digital I/O	8 channels IN/OUT programmable

## Features

- Intel® Atom™ processor N270 1.6 GHz with FSB 533 MHz
- Intel® 945GSE + ICH7M chipset
- With Intel® Gen 3.5 high performance integrated graphic controller for VGA and LVDS
- 7 USB 2.0 ports
- 4 COM ports
- PCI Express Mini Card expansion



▲ Top view



▲ Rear view

CF type-II  
DDR2 SO-DIMM

## 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 (SBC84833VGA-N270 w/18-bit LVDS) 1 x LVDS; 18/24-bit single/dual channel (SBC84833VGA-N270 w/24-bit LVDS)

## Packing List

### Standard

Quick installation guide, user's manual/utility CD, cable

### Cable

Part Number	Description	Qty
59380000300E	2 x COM w/ bracket P=1.27 x 2.54 L=300mm	1
59384500100E	Audio cable w/ bracket P=2,450mm	1
59382631000E	2 x USB 2.0 wafer cable w/ bracket 180mm	1

## Ordering Information

### Standard

SBC84833VGA-N270 w/ 24-bit LVDS (P/N: E384833100)	3.5" SBC with Intel® Atom™ processor N270, VGA/24-bit LVDS, 10/100/1000Mbps Ethernet, audio, 4 COM, 7 USB and PCI Express Mini Card
SBC84833VGA-N270 w/ 18-bit LVDS (P/N: E384833101)	3.5" SBC with Intel® Atom™ processor N270, VGA/18-bit LVDS, 10/100/1000Mbps Ethernet, audio, 4 COM, 7 USB and PCI Express Mini Card

### Optional/MOQ

SBC84833VGA-N270 w/18-bit LVDS & WT (P/N: E384833102)	3.5" SBC with Intel® Atom™ processor N270, VGA/18-bit LVDS, 10/100/1000Mbps Ethernet, audio, 4 COM, 7 USB and W.T. (-20°C ~ +70°C)
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\* W.T.: Wide Temperature