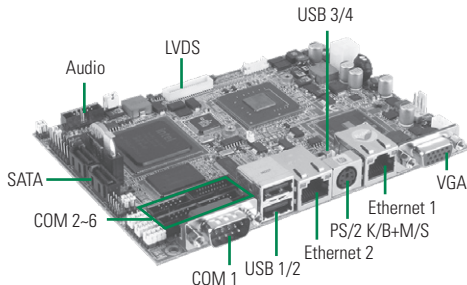


# SBC84831

Intel® Atom™ N270 3.5" Embedded SBC with Intel® 945GSE + ICH7M Chipset, VGA/LVDS, DualView, 6 COM and Dual LANs



Fanless

Low Power

DualView

Extended Temperature

## System

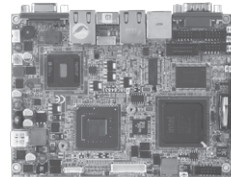
CPU	Intel® Atom™ processor N270 1.6 GHz onboard with FSB 533 MHz
System Memory	1 x 200-pin SO-DIMM supports DDR2-400/533 max. up to 2 GB
Chipset	Intel® 945GSE + ICH7M
BIOS	AMI
SSD	1 x CompactFlash™ type-II
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	N/A
Battery	Lithium 3V/220 mAh
Power 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 @ 1.11A
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

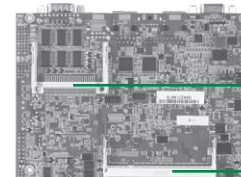
MIO	1 x PS/2 keyboard and mouse 6 x RS-232; with +5V/+12V powered
SATA	2 x SATA-150
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	2 ports as 10/100/1000Mbps support Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111B
Audio	AC'97 Codec audio as MIC-in/Line-in/Line-out/speaker-out with Realtek ALC203
USB	4 x USB 2.0
SMBus	System Management Bus for advanced monitoring/control
Digital I/O	3 channels IN and 5 channels OUT

## Features

- Intel® Atom™ processor N270 1.6 GHz onboard with FSB 533 MHz
- Intel® 945GSE + ICH7M chipset
- With Intel® Gen 3.5 high performance integrated graphics controller for VGA and LVDS
- 4 USB 2.0 ports
- 6 COM ports



▲ Top view



▲ Rear view

CF type-II

DDR2 SO-DIMM

## Display

Chipset	Intel® GMA 950 graphics core
Memory Size	Intel® DVM T 3.0 compliant
Display Interface	1 x VGA 1 x LVDS; 18-bit single channel (SBC84831VGGA-N270 w/18-bit LVDS) 1 x LVDS; 18/24-bit single/dual channel (SBC84831VGGA-N270 w/24-bit LVDS)

## Packing List

### Standard

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

### Cable

Part Number	Description	Qty
593826A0000E	SATA single cable 500mm/red	1
59384500100E	Audio cable w/ bracket P=2,450mm	1
59382631000E	2 x USB 2.0 wafer cable w/ bracket 180mm	1
59384500200E	2 x COM cable w/ bracket P=2.0mm, L=250mm	1

## Ordering Information

### Standard

SBC84831VGGA-N270 w/ 18-bit LVDS (P/N: E384831100)	3.5" SBC with Intel® Atom™ processor N270, VGA/18-bit LVDS, 2 10/100/1000Mbps Ethernet, 6 COM, 4 USB audio and CF
SBC84831VGGA-N270 w/ 24-bit LVDS (P/N: E384831101)	3.5" SBC with Intel® Atom™ processor N270, VGA/24-bit LVDS, 2 10/100/1000Mbps Ethernet, 6 COM, 4 USB audio and CF

### Optional/MOQ

SBC84831VGGA-N270 w/ 24-bit LVDS & WT (P/N: E384831111)	3.5" SBC with Intel® Atom™ processor N270, VGA/24-bit LVDS, 2 10/100/1000Mbps Ethernet, 6 COM, 4 USB audio, CF and W.T. (-20°C ~ +70°C)
SBC84831VGGA-N270 w/ 18-bit LVDS & WT (P/N: E384831110)	3.5" SBC with Intel® Atom™ processor N270, VGA/18-bit LVDS, 2 10/100/1000Mbps Ethernet, 6 COM, 4 USB audio, CF and W.T. (-20°C ~ +70°C)

\* W.T.: Wide Temperature