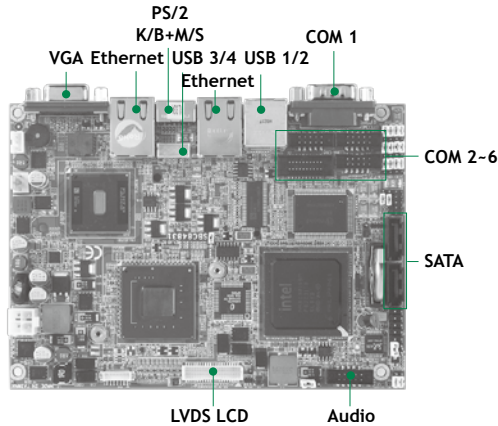


# SBC84831

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



|               |
|---------------|
| Atom™         |
| Intel® 945GSE |
| 6 COM         |
| LVDS/VGA      |
| 4 USB 2.0     |
| AC'97 Audio   |

## 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
- +12V only DC-in supported

## System

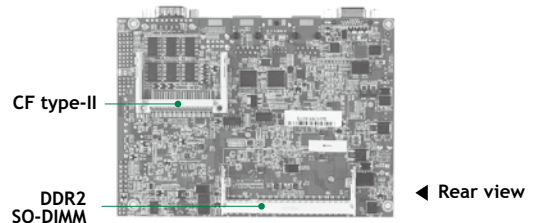
|                       |   |
|-----------------------|---|
| CPU                   | Intel® Atom™ processor N270 1.6 GHz onboard with FSB 533 MHz                    |
| System Memory         | 1 x 200-pin SO-DIMM supports DDR2-400/533 max. up to 2 GB                       |
| Chipset               | 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 Requirements    | Intel® Atom™ N270 @1.6 GHz, 1GB DDR2<br>Max. RMS: +12V @ 1.11A                  |
| Size                  | 146 x 104 mm  |
| Board Thickness       | 1.6 mm  |
| Operating Temperature | Standard: 0°C - +60°C (32°F - 140°F)<br>Optional: -20°C - +70°C (-4°F - +158°F) |
| Relative Humidity     | 10% - 95% relative humidity, non-condensing                                     |

## I/O

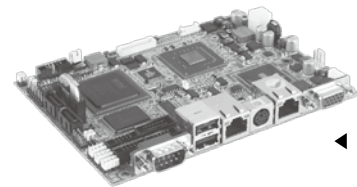
|                     |  |
|---------------------|--|
| MIO                 | 1 x PS/2 keyboard and mouse<br>6 x RS-232; with +5V/+12V powered                       |
| SATA                | 2 x SATA-150   |
| Hardware Monitoring | Detect CPU/system temperature and voltage  |
| Ethernet            | 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   |

## Display

|                   |   |
|-------------------|---|
| Chipset           | Intel® GMA 950 graphics Core  |
| Memory Size       | Intel® DVMT 3.0 compliant   |
| Display Interface | 1 x VGA<br>1 x LVDS; 18-bit single channel (SBC84831VGGA-N270 w/18-bit LVDS)<br>1 x LVDS; 18/24-bit single/dual channel (SBC84831VGGA-N270 w/24-bit LVDS) |



◀ Rear view



◀ Side view

## 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 (RC) | 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 LCD, 2 10/100/1000Mbps Ethernet, audio and CF                       |
| SBC84831VGGA-N270 w/ 24-bit LVDS (P/N: E384831101)      | 3.5" SBC with Intel® Atom™ processor N270, VGA, 24-bit LVDS LCD, 2 10/100/1000Mbps Ethernet, 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 LCD, 2 10/100/1000Mbps Ethernet, 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 LCD, 2 10/100/1000Mbps Ethernet, audio, CF and W.T. (-20°C - +70°C) |

\* W.T.: Wide Temperature