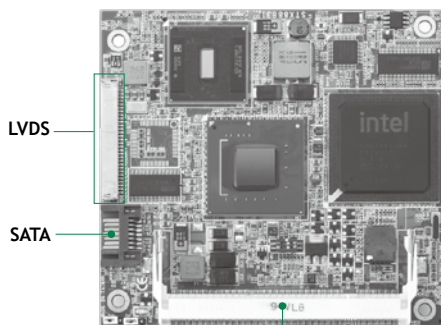


# STX88831

Intel® Atom™ N270 STX SoM with Intel® 945GSE + ICH7M Chipset and Multiple I/O Features



Atom™ N270  
Intel® 945GSE  
1 F.E.  
LVDS/VGA/TTL  
DDR2  
4 USB 2.0  
ISA

DDR2 SO-DIMM

## 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                 | N/A  |
| Watchdog Timer      | 255 levels, 1-255 sec.   |
| Expansion Interface | 4 x 32-bit PCI bus master<br>16-bit ISA bus  |
| Battery             | N/A  |
| Power Requirements  | Intel® Atom™ N270 @1.6 GHz, 1GB DDR2<br>Max. RMS: +5VSBV @ 43mA, +5V @ 2.34A, +3.3V @ 87mA |
| Size                | 96 x 90 mm   |
| Board Thickness     | 1.6 mm   |
| Temperature         | 0°C - +60°C (32°F - 140°F), operation  |
| Relative Humidity   | 10% - 95% relative humidity, non-condensing  |

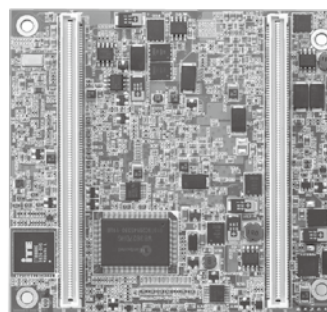
## I/O

|                     |  |
|---------------------|--|
| MIO                 | 1 x IDE; PATA-100 IDE<br>1 x FDD<br>1 x LPT; with SPP/EPP/ECP supported<br>1 x PS/2 keyboard<br>1 x PS/2 mouse<br>2 x UARTs<br>1 x IrDA (optional) |
| SATA                | 1 x SATA-150   |
| Hardware Monitoring | Detect CPU/system temperature, voltage and fan speed   |
| Ethernet            | 1 port as 10/100Mbps supports Wake-on-LAN, PXE Boot ROM with Realtek RTL8103EL   |
| Audio               | AC'97 link interface to baseboard for external Codec   |
| USB                 | 4 x USB 2.0  |
| SMBus               | N/A  |

## Features



- Intel® Atom™ processor N270 1.6 GHz with FSB 533 MHz
- Intel® 945GSE + ICH7M chipset
- DualView with different content & resolution
- 2 UARTs and 4 USB 2.0 supported
- TTL/LVDS LCD supported
- SATA-150 supported



▲ Rear view

## Display

|                   |   |
|-------------------|---|
| Chipset           | Intel® GMA 950 graphics Core  |
| Memory Size       | Intel® DVMT 3.0 compliant   |
| Display Interface | 1 x VGA<br>1 x TTL LCD; 18-bit as default through STX interface connector to baseboard<br>1 x LVDS; 18/24-bit single/dual channel on module |

## Packing List

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

## Ordering Information

| Standard                         |   |
|----------------------------------|---|
| STX88831VEA<br>(P/N: E388831100) | STX SoM with Intel® Atom™ processor N270, VGA, LVDS, 10/100Mbps Ethernet, 2 UARTs |