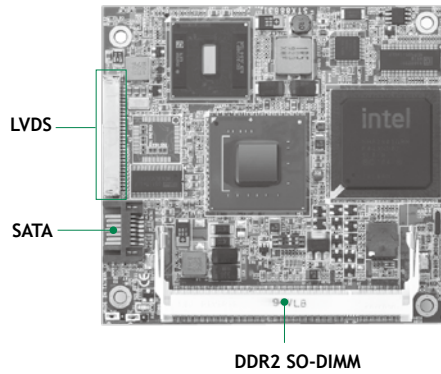


STX88831

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

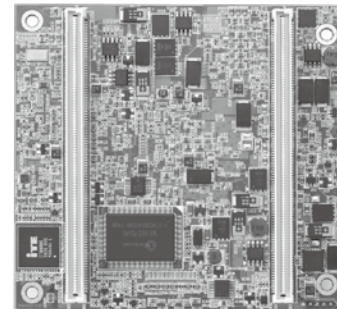


Atom™ N270
Intel® 945GSE
1 F.E.
LVDS/VGA/TTL
DDR2
4 USB 2.0
ISA

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

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 16-bit ISA bus
Battery	N/A
Power Requirements	Intel® Atom™ N270 @1.6 GHz, 1GB DDR2 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 1 x FDD 1 x LPT; with SPP/EPP/ECP supported 1 x PS/2 keyboard 1 x PS/2 mouse 2 x UARTs 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

Display

Chipset	Intel® GMA 950 graphics Core
Memory Size	Intel® DVMT 3.0 compliant
Display Interface	1 x VGA 1 x TTL LCD; 18-bit as default through STX interface connector to baseboard 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 (P/N: E388831100)	STX SoM with Intel® Atom™ processor N270, VGA, LVDS, 10/100Mbps Ethernet, 2 UARTS

SBC Services and Solutions

System on Modules

Embedded SBCs
- EPIC

Embedded SBCs
- 3.5" Capa

Embedded SBCs
- Nano-ITX

Embedded SBCs
- Pico-ITX

Embedded SBCs
- PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix