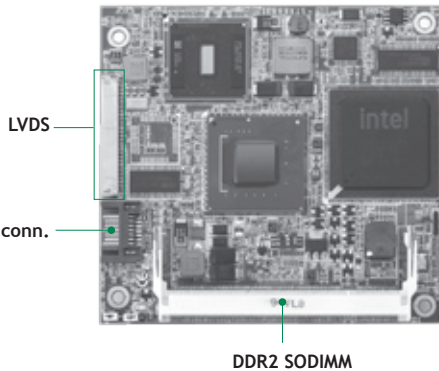


STX88831

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

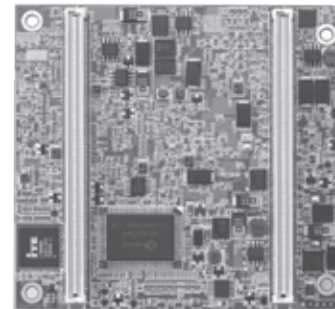


- Atom™ N270
- Intel® 945GSE
- 1 F.E.
- LVDS/VGA/TTL
- 1 DDR2
- 4 USB 2.0
- ISA

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/512KB with FSB 533 MHz
System Memory	1 x 200-pin SODIMM supports DDR2 PC2-3200/4200 max. up to 2GB
Chipset	Intel® 945GSE+ICH7M+ITE8888G
BIOS	AMI BIOS
SSD	N/A
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	* 32-bit/33MHz PCI for 4 Bus masters * 16-bit ISA Bus
Battery	N/A
Size	96 x 90 mm
Temperature	0°C - +60°C (32°F - 140°F), operation
Operation Humidity	10% - 95% relative humidity, non-condensing

I/O

MIO	1 x IDE; PATA-100 IDE 1 x FDD 1 x PS/2 keyboard 1 x PS/2 mouse 1 x LPT; with SPP/ECP/EPP 2 x UARTs 1 x IrDA (optional)
SATA	1 x SATA-150 on Module
Hardware Monitoring	Support CPU/System temperature, CPU/System voltage and CPU/System Smart Fan Detection and Control features
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 port
SMBus	N/A

* W.T.: Wide Temperature

Display

Chipset	Intel® GMA950 integrated graphics engine
Memory Size	Dedicated frame buffer up to 8MB and DVMT up to 224MB
Resolution	* VGA up to 2048 x 1536 @ 75 Hz with 32-bit color * LVDS up to 1600 x 1200 (with CH7308B) * TTL LCD up to 1024 x 768
Output Interface	* CRT for DAC output through interface connector * TTL output through STX interface connector (the same as STX88810) * LVDS LCD through LVDS connector (FC4 compliant) with 18/24-bit single/dual channel LVDS supported (with CH7308B)

* W.T.: Wide Temperature

Packing List

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

Ordering Information

Standard	
STX88831VEA	STX SoM with Intel® Atom™ processor N270, VGA, LVDS, 10/100Mbps, 2 UARTs
Optional	
STX88831	cooling kit

SBC Services and Solutions

System-on-a-Module Solutions

Embedded SBCs > 5.25" Petit

Embedded SBCs > EPIC

Embedded SBCs > 3.5" Capa

Embedded SBCs > Pico-ITX

Embedded SBCs > PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix