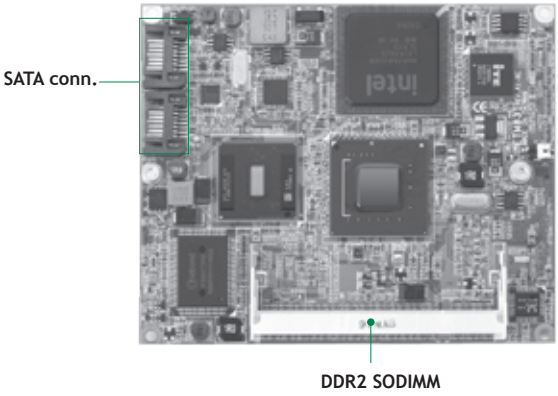
ETM831

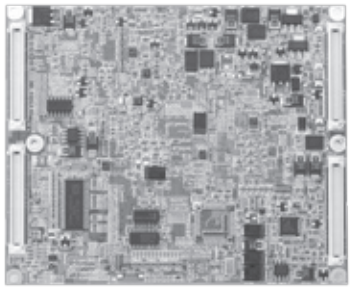
Intel® Atom™ N270 ETX V3.0 SoM with Intel® 945GSE+ICH7M Chipset and Multiple I/O Features



- Atom™ N270
- Intel® 945GSE
- DDR2
- 4 USB 2.0
- HD Audio
- ISA
- 4 PCI

Features

- Intel® Atom™ processor N270 1.6 GHz with FSB 533 MHz
- Intel® 945GSE+ICH7M chipset
- DDR2-400/533 max. up to 2GB
- 2 SATA-150, 1 PATA-100 supported
- DualView with different content & resolution
- 24-bit single/dual channel LVDS LCD supported
- 4 PCI Bus master, ISA Bus supported
- 5.1 channel audio (optional)



▲Rear view

System

CPU	Intel® Atom™ processor N270 1.6 GHz/512KB with FSB 533 MHz
System Memory	1 x 200-pin SODIMM support DDR2 PC2-3200/4200 max. up to 2GB
Chipset	Intel® 945GSE+ICH7M/ICH7M-DH+ITE8888G
BIOS	AMI BIOS
SSD	N/A
Watchdog Timer	255 levels, 1~255 sec.
Expansion Interface	* PCI for 4 Bus masters * 16-bit ISA Bus
Battery	N/A
Size	114 x 95 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 (optional) 1 x PS/2 keyboard 1 x PS/2 mouse 1 x LPT; with SPP/EPP/ECP supported (shared with FDD, default as LPT provided) 2 x UARTs 1 x IrDA (optional)
SATA	2 x SATA-150 port; RAID 0, 1 (ETM831VEAR only)
Hardware Monitoring	Support CPU/system temperature, CPU/system voltage and CPU/system Fan speed detection
Ethernet	1 port as 10/100Mbps supports Wake-on-LAN, PXE Boot ROM with Realtek RTL8103EL
Audio	HD Codec audio as MIC-in/Line-in/Line-out/ Speaker-out with Realtek ALC662
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)
Output Interface	* VGA for DAC output through interface connector * LVDS LCD through interface connector with 18/24-bit single/dual channel LVDS supported (with CH7308B)

Packing List

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

Ordering Information

Standard	
ETM831VEA	ETX 3.0 SoM with Intel® Atom™ processor N270, VGA, LVDS, 10/100Mps Ethernet, HD audio and 2 UARTs ports
Optional	
ETM831 heatspreader	
5078G830200E	ETM low profile cooling kit without fan

* All specifications and photos are subject to change without notice.