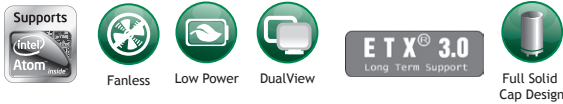
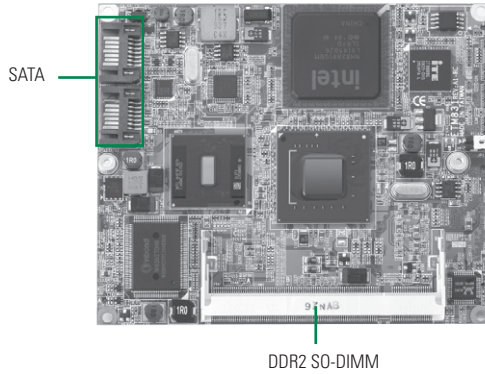


ETM831

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



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: +5V @ 2.521A
Size	114 x 95 mm
Board Thickness	1.6 mm
Temperature	0° ~ +60°C (32°F ~ 140°F), operation -20°C ~ +70°C (-4°F ~ +158°F) as option
Relative Humidity	10% ~ 95% relative humidity, non-condensing

I/O

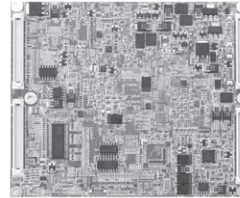
MIO	1 x IDE; PATA-100 IDE 1 x FDD/ LPT (default); with SPP/ EPP/ ECP supported 1 x PS/2 keyboard 1 x PS/2 mouse 2 x UARTs 1 x IrDA (optional)
SATA	2 x SATA-150; with RAID 0/1 (ETM831VEAR only)
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 port as 10/100Mbps supports Wake-on-LAN, PXE Boot ROM with Realtek RTL8103EL
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	4 x USB 2.0
SMBus	System Management Bus for advanced monitoring/control

Display

Chipset	Intel® GMA 950 graphics core
Memory Size	Intel® DVMT 3.0 compliant
Display Interface	1 x VGA 1 x LVDS; 18/24-bit single/dual channel

Features

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



▲ Rear view

Packing List

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

Ordering Information

Standard

ETM831VEA-N270 (P/N: E38G831100)	ETX 3.0 SoM with Intel® Atom™ processor N270, VGA, LVDS, 10/100Mbps Ethernet, HD audio and 2 UARTs ports (Fanless)
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Optional

ETM831VEA-N270 -WT (P/N: TBD)	ETX 3.0 SoM with Intel® Atom™ processor N270, VGA, LVDS, 10/100Mbps Ethernet, HD audio and 2 UARTs ports (-20°C ~ +70°C)
5078G831000E	ETM831 heatspreader
5078G830200E	ETM SoM low profile cooling kit without fan
5078G830100E	ETM SoM low profile cooling kit with fan

SBC
Services
and Solutions

Systems
on
Modules

Embedded
SBCs
>EPIC

Embedded
SBCs
>3.5" Capa

Embedded
SBCs
>Nano-ITX

Embedded
SBCs
>PC/104

Embedded
SBCs
>PC/104

Industrial
Mother-
boards

Slot
CPU
Cards

Accessories

Appendix