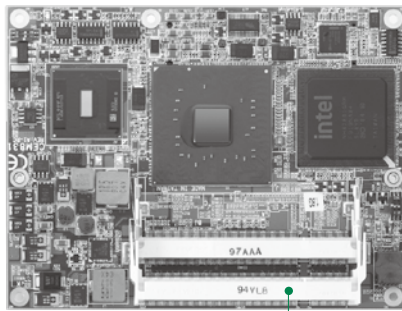


CEM831

Intel® Atom™ N270 COM Express™ Type-II Module with Intel® 945GME + ICH7M Chipset



- Atom™ N270
- Intel® 945GME
- 1 G.E.
- LVDS/VGA
- 2 DDR2
- 8 USB 2.0

Double Deck
DDR2 SO-DIMM

System

CPU	Intel® Atom™ processor N270 1.6 GHz onboard with FSB 533 MHz
System Memory	2 x 200-pin SO-DIMM supports DDR2-533/667 max. up to 4GB
Chipset	Intel® 945GME + ICH7M/ICH7M-DH
BIOS	AMI
SSD	N/A
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	1 x PCIe x16 graphics port supports for SDVO or PCIe x1 device 3 x PCIe x1 devices 4 x 32-bit PCI bus masters
Battery	N/A
Size	125 x 95 mm
Temperature	0° C - +60° C (32° F - 140° F), operation
Operation Humidity	10% - 95% relative humidity, non-condensing

I/O

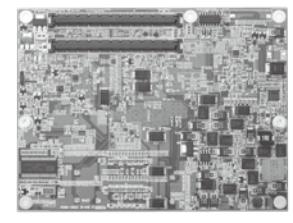
MIO	1 x PATA-100 IDE 1 x LPC interface
SATA	2 x SATA-150 ports
Hardware Monitoring	N/A
Ethernet	1 port as 10/100/1000Mbps supports Auto MDI-X, Wake-on-LAN, RPL/PXE Boot ROM with Intel® 82583V
Audio	HD/AC'97 link interface to baseboard for external Codec
USB	8 x USB 2.0
SMBus	Yes
Digital I/O	4 channels IN & 4 channels OUT

* W.T.: Wide Temperature

Features



- Intel® Atom™ processor N270 1.6 GHz with FSB 533 MHz
- Intel® 945GME + ICH7M chipset
- 2 DDR2 SO-DIMM up to 4GB
- 19 lanes for PCIe
- 8 USB 2.0 ports



▲ Rear view

Display

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

Packing List

Quick installation guide, user's manual/utility CD
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Ordering Information

Standard	
CEM831VG-N270	COM Express type-II module with Intel® Atom™ N270 CPU, VGA, LVDS, and 10/100/1000Mbps
Optional	
CEB94000	ATX form factor baseboard
5078D831000E	CEM831 Heatspreader
5078D830100E	COM Express cooling kit with fan

SBC Services and Solutions

System on Modules

Embedded SBCs > EPIC

Embedded SBCs > 3.5" Capa

Embedded SBCs > Pico-ITX

Embedded SBCs > PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix