# SYNCUSTECH
## EMB - N270B

# Intel® Atom™ N270B
# Embedded EPIC Motherboard

## EMB - N270B

A fanless-type ODM main board applicable to electronic security safes. The board is supported by several serial and USB ports to allow maximum connection to multiple peripherals. The structure of the board is specifically designed to ensure compatibility with other mechanical parts of the equipment.

## Features

- Intel® AtomTM N270 1.6GHz 533FSB Fanless EPIC Board

- DDR2 memory supports up to 2GB (Single Channel)

- VGA and LVDS 18bit Single Channel, Dual Display Support

- Supports up to 2 x GbE, 6 x USB 2.0 and 4 x RS-232C,  1 x RS-232/422/485ports (Select)

- E-IDE 44Pin PATA UDMA 33/66/100 1 Channel
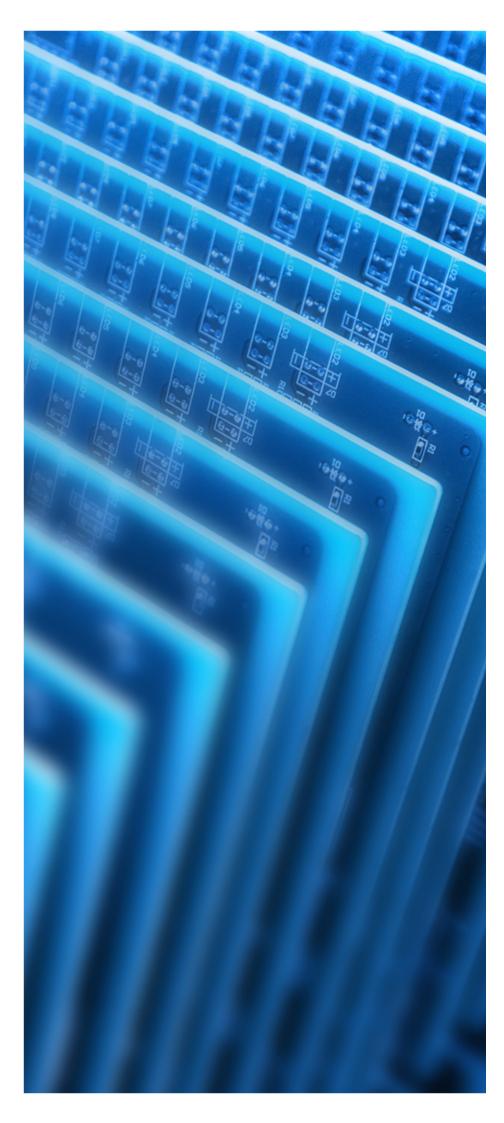
- ATX 12V Power

- Supports Windows XP

| Module | Function | Descriptions |
|---|---|---|
| Processor System | CPU | Intel Atom N270 CPU (45nm) FANLESS |
| | Max. Speed | 1.60GHz, 533FSB |
| | L2 Cache | 512KB |
| | Chipset | Intel 945GSE + ICH7M chipset |
| | BIOS | Award |
| Memory | Technology | Single channel DDR2-533 |
| | Max. Capacity | 2GB |
| | Socket | 1 x 200-pin DDR2 SODIMM |
| Graphics | Controller | Integrated Intel GMA 950 Graphics |
| | LVDS | Supports 18-bit single channel |
| | Dual Display | Support |
| Ethernet | Interface | 10/100/1000 Mb |
| | Controller | Realtek RTL8111C |

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| Module | Function | Descriptions |
|---|---|---|
| Audio | AC'97 Codec | Realtek ALC203 2-channel |
| SATA | Max Data | 300 MB/s |
| | Channel | SATA2 2Chanel |
| EIDE | Mode | 44pin PATA UDMA 33/66/100 |
| | Channel | 1 |
| Rear I/O | VGA | 1 x 15P VGA |
| | Ethernet | 2 x RJ45 |
| | USB | 6 x USB 2.0/1.1 ports |
| | Serial | 3 x 9P RS232 |
| | Modem | 1 x RJ11 Modem Connector |
| Internal connector | Serial | 2 x Serial header (1 x 232 TTL _Modem) (1 x for Serial modem) |
| | USB | 2 x USB 2.0/1.1 ports |
| | IDE | 1 x 44 pin 2mm pitch |
| | SATA | 2 x SATA2 |
| | DIO | 1 x 8-bit GPIO |
| | KB / Mouse | 1 x Keyboard/Mouse connector |
| | ATX POWER | 12V ATX power |
| | LVDS | 1 x 40P |
| | AUDIO | 1 x 8P HEADER, SPK,LINE_OUT, MIC_IN |
| | CPU FAN | 1 x CPU cooling fan connector |
| | PWR,Reset | 1 x 3P Header |
| Power | Typical | DC 12V Input (Tolerance ±10%) |
| Environment | Operating Temp | 0 ~ 60° C (32 ~ 140° F) |
| Physical | Dimensions | 115mm x 165mm |

# This motherboard has been developed as a reference product and can be customized to your needs.

To ask for a customized solution, please contact our team at:

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