

MB-ATOM N270 1.6GHz CPU

Mini-ITX Mainboard



Features

- Intel® ATOM N270 1.6GHz processor
- Intel® 945GSE + ICH7-M Chipset
- Intel® integrated Graphic Media Accelerator 950
- 1 x 200 pin SO-DIMM up to 2GB DDR2 533 SDRAM
- 1 x VGA, 1 x Mini-PCIe, 1 x CF, 1 x PCI
- 4 x COM, 6 x USB 2.0, 2 x SATA, 1 x EIDE, 2 x GbE_LAN

Specification

System		I/O	
CPU	Support Intel® FCBGA8 45nm Atom N270 processor	Rear I/O port	1 x PS/2 keyboard
FSB	533 MHz		1 x PS/2 Mouse
BIOS	Award 16 MB SPI BIOS		2 x COM port
System Chipset	Intel® GME945 / ICH7-M		1 x VGA port
I/O Chip	Winbond W83627DHG-A		4 x USB 2.0/1.1
System Memory	Two 200-pin SO-DIMM sockets support up to 2GB single Channel DDR2 533 SDRAM		2 x RJ45 port
SSD	One CompactFlash Type I/II socket		Audio I/O (3 Jacks)
Watchdog Timer	Reset: 1 sec. ~255 min. and 1 sec. or 1 min./step		2 x COM port
H/W Status Monitor	Monitoring CPU temperature, voltage, and cooling fan status, Auto throttling control when CPU overheats		1 x USB connector support 2 USB
Expansion	One PCI slot		1 x 20-pin ATX Power connector
TPM	TPM1.2 (Infineon TPM chip 9635 TT 1.2 on board LAN (PME/ RPL)	1 x CPU Fan connector	
S3/ S4	Yes	1 x Power Fan connector	
Wake up on Lan or Ring	Yes	2 x COM port header (with 5V/12V output)	
DIO	8-bit General Purpose I/O for DI and DO	2 x SATA connectors	
Display		Internal Connector	1 x IDE connector
Chipset	Intel® GME945 Integrate Graphics Media Accelerator 950		1 x Front panel audio connector
Display Memory	Intel® DVMT 3.0 supports 224 MB video memory		1 x Audio amplifier connector
Resolution	Support up to 1600 x 1200		1 x System panel connector
Dual Display	Dual view, 2-CH LVDS DVI		1 x LVDS connector
LVDS	Dual-channel 24-bit LVDS		1 x Inverter Power connector
DVI	Yes, DVI-I	1 x Mini-PCI Express	
Ethernet		Audio	
LAN 1	Realtek RTL8111C Gigabit LAN	Audio Code	Realtek ALC888 high-definition Audio Codec support 5.1+2-CH two independent Audio streams
LAN 2		Audio Interface	Mic in, Line in (CD Audio in), Line Out
		Audio Amplifier	TPA3005D2 6W (per front channel stereo amplifier)

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

DIGIMORE
Digimore your business

Digimore Electronics Co., Ltd

10 Fl., No. 61, Yan-Ping S. Rd., Taipei 100, Taiwan

TEL: +886 2 2311 3299 FAX: +886 2 2311 3375

Email: digimor.tapei@msa.hinet.net http://www.digimore.com.tw

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Power Requirement

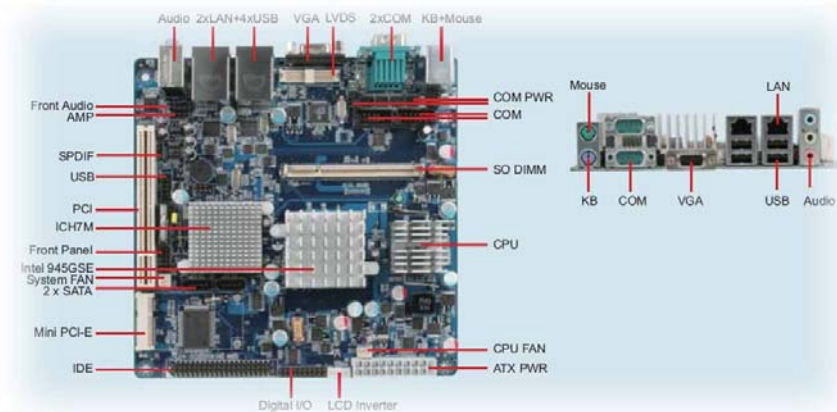
(Power On, ATOM N270 1.6GHz Processor, 2GB DDR2 SDRAM)

+3.3V	+5.0V	+12V	-12V	+5Vsb
1.21A	1.96A	0.19A	0.06A	1.28A

Mechanical & Environment

Power Connector Type	ATX
Operating Temperature	0 ~ 60° C
Operating Humidity	0% ~ 90% relative humidity, non condensing
Dimension	6.69" x 6.69" (170 x 179 mm)

Connectors



Block Diagram

