

MF-Patom-101 Industrial BOX PC

Engineering Specification

Motherboard specification:

All in one designed with VGA , LAN , sound on board in Mini Itx form factor
Industrial circuit and components designed.

Chip sets: Intel 945GSE + ICH7M

CPU: Intel Atom N270 (1.6Ghz/512K) fanless CPU built in

Lan : 2 x 10/100/ 1000 Dual giga bit Lan on board (**2nd Lan optional**)

USB port: 8 ports (2 ports in pin headers & 6 ports in the back of I/O ports)

Case size : 29.5 cm (W) x 28 cm (L) x 6.35 cm (H) metal case

VESA mount bracket: Optional VESA mount bracket which enable the case for VESA mountable.

Power supply : External power supply 80 watts , AC input 90-240V full range.

Driver bay: 2 x 3.5" HDD or 2 x 2.5" HDD + 1 x slim CD-ROM.

PCI slot : 1 x PCI slot or 2 x PCI slots

Front panel: Power LED , HDD LED, Power switch , Reset switch , 2 x USB ports.

Back panel : Lan x 2 (**2nd Lan optional**) , VGA , 6 ports USB 2.0 , sound (Line in , Line out , Mic) ,
PS/2 Keyboard , PS/2 mouse , + 12 VDC- input for power adapter.



Mini-ITX Motherboards

MF-Patom

Intel® Atom™ Mini-ITX Motherboard with Intel® 945GSE Chipset



FEATURES

- Onboard Intel® Atom™ Processor N270, 1.6GHz, 533MHz FSB
- 1x DDR2 DIMM, Max. 2GB
- Supports CRT and LVDS (dual display)
- Onboard 10/100/1000 Mbits PCI-E Gigabit LAN x 2 (2nd Lan optional)
- 2x SATA II, 8x USB 2.0, 4x COM, 1x IDE
- 1x PCI, 1 x PCI-E (x1), 1x Mini PCI-E(x1)

MF-Patom SPECIFICATIONS

CPU

Intel® Atom™ N270 Single Core processor
1.60GHz speed

CPU Front Side Bus (FSB)
533MHz

Chipset

Intel® 945GSE
ICH7M

BIOS

Award BIOS, ACPI supported

System Memory

One DDR2 sockets support up to 2GB DDR2 SDRAM
PC533 DDR2 SDRAM

Integrated VGA

Intel® 945GSE integrated Graphics Media Accelerator (GMA 950) supports CRT

LVDS

Supports 24/18-bit dual channel LVDS
LVDS interface via 2x DF24 sockets

LAN

Realtek RTL8111C/8111D PCI-E Gigabit Lan x 2 (2nd Lan optional)

Audio

ICH7M integrated audio controller with ALC655 codec

Audio Amp

Dual channel , 2.5 watts per channel

LPC I/O

Winbond W83627EHG chipset, Fintek 81216DG
1x IDE, 1x KB, 1x mouse, 4x COM 2x SATAII

Serial Ports

One RS232/422/485 and three RS-232 COM ports

Serial ATA

Supports 2 SATA II ports

USB (2.0)

Supports 8 USB ports (6 ports + 2 ports via pin header)

Keyboard and Mouse Connector

PS/2 type

Watchdog Timer

Generates system reset; 256 levels

Hardware Monitoring

Built in W83627EHG; monitors system/CPU
temperature and voltage status

Digital I/O

4 in / 4 out

Power Connector

DC power jack for +12V DC-in

Expansion Slots

1x PCI, 1x PCI-E (x1), 1x Mini PCI)

Edge Connectors

DC-in, PS/2 KB/Mouse Mini DIN, VGA CRT, 1x or 2x RJ-45, 4x USB, Dual/Triple jack for audio

Onboard Connectors/Headers

IDE1 (40-pin), CF socket (solder side), Digital I/O,
4x COM, 2x SATA, USB5/6/7/8, Digital I/O, LPT

Form Factor

Mini-ITX Motherboard

Dimensions

170mm x 170mm

Power Consumption

Intel® Atom™ N270 1.6GHz w/ 2.0 GB DDR2-800
+12V: 2.65A

MTBF: 70000 hours.

Operating Temperature

0°C~60°C (32°F~140°F)

Storage Temperature

-20°C~80°C (-4°F~176°F)

Relative Humidity

10%~90% (non-condensing)