



Motherboards

Intel® Atom™-Based

Intel® Atom™ N450 / D510 Mini-ITX Motherboard w/ Intel® ICH8M chipset

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MI889

NEW

Features

- Onboard Intel® Atom™ N450 SC / D510 DC processor, 1.66GHz
- 1x DDR2 SO-DIMM, Max. 2GB
- Supports CRT and LVDS (dual display)
- Onboard dual PCI-E Gigabit LAN
- 8x USB 2.0, 4x COM, 2x SATA II, 1x IDE
- 1x PCI-E(x4)
- Watchdog timer, Digital I/O

System

CPU	Intel® Atom™ Processor N450 SC (Single core, 1.66GHz 512KB L2 cache) Intel® Atom™ Processor D510 DC (Dual core, 1.66GHz 1MB L2 cache)
System Memory	1x DDR2 SO-DIMM, Max. 2GB
System Chipset	Intel® 82801HM I/O Controller (ICH8M)
BIOS	AMI
Watchdog Timer	256 levels
SSD	N/A
H/W Monitor	Yes
Expansion Slots	1x PCI-E (x8)[(x4) Link]

Graphics

VGA Controller	Intel® ICH8M Integrated GMA3150
VGA Memory	Max. Shared Memory - 224 MB
Display Interface	Supports VGA, 18-bit single channel LVDS

Ethernet

Controller	2x Realtek 8111DL PCI-E Gigabit LAN
Connector	2x RJ-45 on board

Multi I/O

Chipset	Winbond W83627UHG 1x IDE, 1x KB, 1x mouse, 3x RS232, 1x RS-232/422/485, 2x SATA II
USB	4 ports on board Pin header for 4 ports (USB 2.0)
Audio	Intel® built-in HD audio w/ Realtek ALC662 codec for 5.1CH
Others	Digital I/O (4-in/4-out)

Mechanical and Environmental

Dimensions	170mm x 170mm (6.7" x 6.7")
Max. Power Requirement	Intel® Atom™ N450 1.66GHz w/ 2GB DDR2-800 +3.3V: 0.75A +5V: 0.26A +12V: 0.51A Intel® Atom™ D510 1.66GHz w/ 2GB DDR2-800 +3.3V: 0.76A +5V: 2.28A +12V: 0.62A
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)

Ordering Information

MI889	Intel® Atom™ N450 1.66 GHz processor Mini-ITX motherboard w/ VGA, 2x PCI-E GbE LAN
MI889-D5	Intel® Atom™ D510 1.66 GHz processor Mini-ITX motherboard w/ VGA, 2x PCI-E GbE LAN

Remarks:
 1. For optional daughter boards and riser cards, please refer to page 19-20.
 2. Specifications are subject to change without prior notice.

