

Disk-Size SBCs

Intel® Atom™-Based

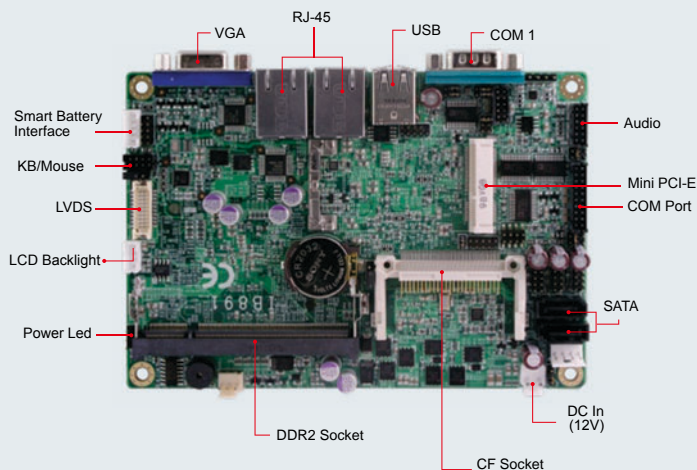
Intel® Atom™ N450/ D510 3.5-inch Disk Size SBC w/ Intel® ICH8M Chipset



3.5" SBC

IB891

NEW



Features

- Onboard Intel® Atom™ N450 SC/D510 DC processor, 1.66 GHz
- 1x DDR2 SO-DIMM, Max. 2GB
- Supports VGA and LVDS (18-bit single channel)
- 2x Realtek 8111DL PCI-E Gigabit LAN
- Watchdog timer, Digital I/O
- 8x USB, 4x COM, 2x SATA

System

| | |
|-----------------|---|
| CPU | Intel® Atom™ Processor N450 SC (1.66GHz, 512K cache) Intel® Atom™ Processor D510 DC (1.66GHz, 1MB cache) |
| System Memory | 1x DDR2 SO-DIMM, Max. 2GB (Non-ECC) |
| System Chipset | Intel® 82801HM I/O controller (ICH8M) |
| BIOS | AMI |
| Watchdog Timer | 256 levels |
| SSD | Type II CF socket |
| H/W Monitor | Yes |
| Expansion Slots | 1x Mini PCI-E |

Graphics

| | |
|-------------------|--|
| VGA Controller | Intel® N450/D510 Integrated GMA3150 graphics |
| VGA Memory | Max. shared memory - 224MB |
| 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 KB, 1x mouse, 1x LPC 3x RS232, 1x RS-232/422/485 2x SATA |
| USB | 2 ports on board Pin header for 6 ports (USB 2.0) |
| Audio | Intel® ICH8M built-in audio controller w/ Realtek ALC662 codec for 5.1 CH |
| Others | Digital I/O, +12V DC In, 1x smart battery |

Mechanical and Environmental

| | |
|------------------------|--|
| Dimensions | 102mm x 147mm (4" x 5.8") |
| Max. Power Requirement | Intel® Atom™ N450 1.66GHz w/ 2GB DDR2-800 +12V : 1.93A |
| 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

| | |
|-------------|---|
| IB891 | Intel® Atom™ N450 1.66GHz SC processor 3.5-inch Disk Size SBC w/ CPU cooler, VGA and dual PCI-E Gigabit LAN |
| IB891-D5 | Intel® Atom™ D510 1.66GHz DC processor 3.5-inch Disk Size SBC w/ VGA and dual PCI-E Gigabit LAN |
| IB60 | Cable kit for IB891 series, w/ USB, COM, SATA and power cable |
| HSIB891-BGA | Heatsink for IB891 only |
| CSB100-891 | Steel chassis for IB891 3.5" SBC, 2.5" 160GB SATA HDD, 60W power adaptor |



Remarks:

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

1 Motherboards

2 Disk-Size SBCs

3 CPU Modules

4 PC/104 Plus

5 CPU Card

6 Embedded Systems

7 Network Security Appliance