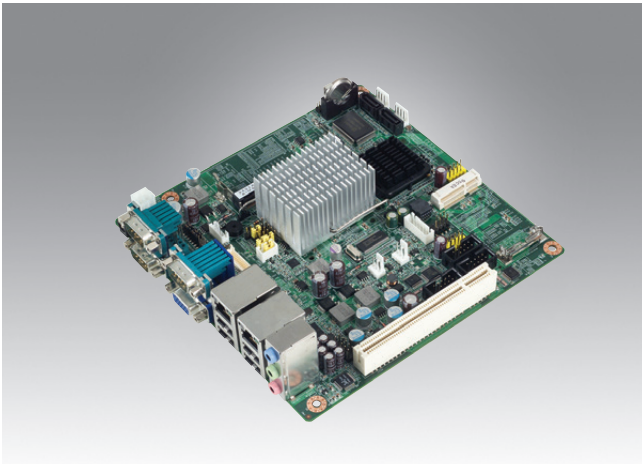


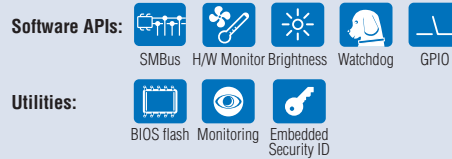
AIMB-212

Intel® Atom™ N450/D510 Mini-ITX with CRT/LVDS, 6 COM, and Dual LAN



Features

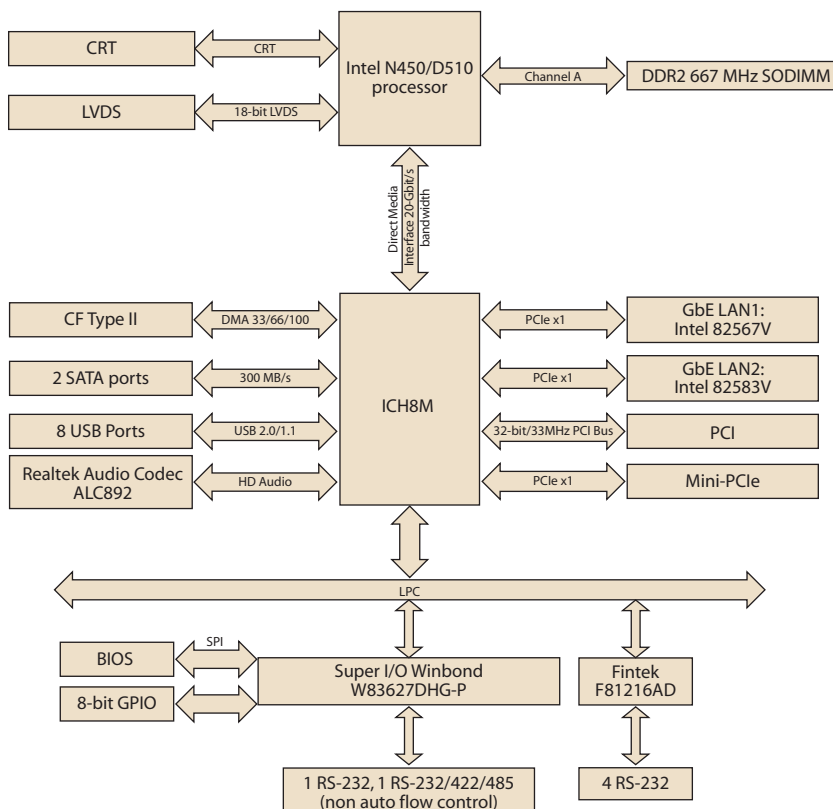
- Supports Intel® Atom™ processor N450 and D510 dual core
- One 200-pin SO-DIMM up to 2 GB DDR2 667 MHz SDRAM
- Supports 1 PCI and 1 Mini-PCIe expansion, 6 serial ports, 8 USB, and CF
- Lower total cost of ownership with DC12V support
- Supports SUSIAccess and Embedded Software APIs



Specifications

| | | Intel Atom N450 | Intel Atom D510 |
|--------------------------|------------------------|--|----------------------------|
| Processor System | CPU (45 nm) | Intel Atom N450 | Intel Atom D510 |
| | Max. Speed | 1.6 GHz (single core) | 1.66 GHz (dual core) |
| | L2 Cache | 512 KB | 1 MB |
| | Chipset | ICH8M | |
| | BIOS | AMI 16 Mbit PSI | |
| Expansion Slot | PCI | 32-bit/33 MHz, 1 slot | |
| | Mini-PCIe | 1 | |
| | PCIe | - | |
| Memory | Technology | Single channel DDR2 667 MHz not compatible with DDR2 533MHz | |
| | Max. Capacity | 2 GB | |
| | Socket | 1 x 200-pin SO-DIMM (Non-ECC) | |
| Graphics | Controller | Embedded Gen3.5+ GFX Core, 200/400-MHz render clock frequency for N450/D510 | |
| | VRAM | Shared system memory up to 224 MB SDRAM | |
| | VGA | Supports up to SXGA 1400 x 1050 @ 60Hz for Atom N450, up to 2048 x 1536 for Atom D510 | |
| | LVDS | Supports 18-bit single channel and up to WXGA 1366 x 768 | |
| | TV-out | None | |
| Dual Display | | CRT + LVDS, support extended mode and clone mode | |
| | | | |
| Ethernet | Interface | 10/100/1000 Mbps | |
| | Controller | GbE LAN1: Intel 82567V; GbE LAN2: Intel 82583V | |
| | Connector | RJ-45 x 2 | |
| SATA | Max Data Transfer Rate | 300 MB/s (SATA 2.0) | |
| | Channel | 2 | |
| EIDE | Mode | None | |
| | Channel | None | |
| SSD | CompactFlash | Supports CompactFlash Type I/II | |
| Rear I/O | CRT | 1 | |
| | Ethernet | 2 | |
| | USB | 4 (USB 2.0) | |
| | Audio | 3 (Mic-in, Line-out, Line-in) | |
| | Serial | 3 (2 x RS-232, 1 x RS-232/422/485) | |
| | Parallel | - | |
| | DC Jack | 1 (2.5 mm) | |
| Internal Connector | LVDS & Inverter | 1 | |
| | USB | 4 (USB 2.0) | |
| | Serial | 3 (RS-232) | |
| | IDE | None | |
| | SATA | 2 (SATA 2.0) | |
| | SATA PWR Connector | 2 | |
| | CompactFlash | 1 | |
| | Parallel | None | |
| | DIO | 8-bit GPIO | |
| Watchdog Timer | Output | System reset | |
| | Interval | Programmable 1 ~ 255 sec/min | |
| Power | Power Type | Single voltage 12V DC input; 1 x External DC jack; 1 x Internal 4-pin (2x2) power connector; Supports AT/ATX mode | |
| | Power Consumption | 12 V @ 3.4 A (Intel D510 1.66 GHz processor/DDR2 800 MHz 2 GB, SATA HDD x1) 12 V @ 2.73 A (Intel N455 1.66 GHz processor/DDR2 800 MHz 2GB, SATA HDD x1) | |
| Environment | | Operating | Non-Operating |
| | Temperature | 0 ~ 60° C (32 ~ 140° F) | -40 ~ 85° C (-40 ~ 185° F) |
| Physical Characteristics | Dimensions | 170 mm x 170 mm (6.69" x 6.69") | |

Block Diagram



Ordering Information

| Part Number | CPU | SC/DC | GbE | COM | LVDS | Thermal Solution |
|-----------------|-----------|-------------|-----|-----|-----------|------------------|
| AIMB-212N-S6A1E | Atom N450 | Single core | 2 | 6 | 1, 18-bit | Passive |
| AIMB-212D-S6A1E | Atom D510 | Dual core | 2 | 6 | 1, 18-bit | Active |

Note: Passive = fanless; Active = with fan

Optional Accessories

| Part Number | Description |
|-------------|--|
| 1700003195 | USB cable with two ports, 17.5 cm |
| 1700002204 | USB cable with two ports, 27 cm |
| 1700008461 | USB cable with four ports, 30.5 cm |
| 1757003995 | Adapter AC100-240V 60W +12V/5A |
| 1700018699 | KB/MS cable 1*6P-2.5/DIN-6P (F)*2, 25 cm |

I/O View



AIMB-212N-S6A1E
AIMB-212D-S6A1E

Optional Chassis

| Part Number | Description |
|-----------------|---|
| AIMB-B2000-00YE | Mini-ITX chassis with optional DC Adaptor |

Packing List

| Part number | Description | Quantity |
|----------------|---------------------------------|----------|
| 1700003194 | SATA HDD cable | 2 |
| 1700017461 | SATA power cable | 2 |
| 1700001788 | Serial port cable | 3 |
| 1960046526N001 | CPU cooler (For Atom D510 only) | 1 |
| 1960046435T000 | I/O port bracket | 1 |
| 2002021210 | Startup manual | 1 |
| 2062021200 | Driver CD | 1 |

Embedded OS/API

| OS/API | Part No. | Description |
|--------------|------------|--|
| Win XPE | 2070009861 | XPE WES2009 AIMB-212 V4.0 JPY |
| Win CE | 2070009695 | CE 6.0 Pro AIMB-212 V1.3 ENG |
| | 2070011085 | CE 7.0 Pro AIMB-212 V1.0 ENG |
| Software API | 205E212000 | SUSI 3.0 SW API for AIMB-212 B:20091115 XP |

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