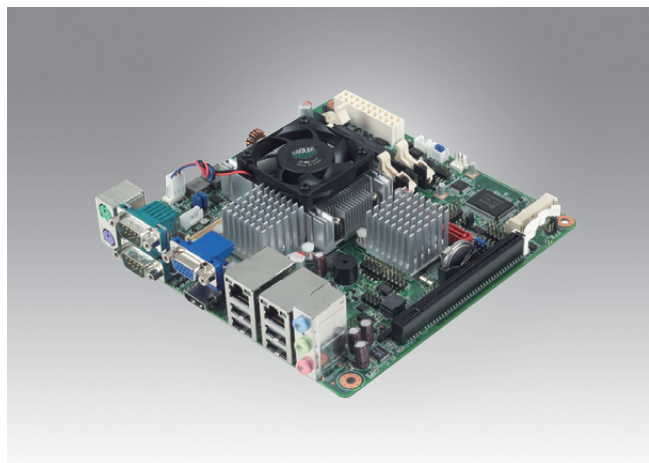


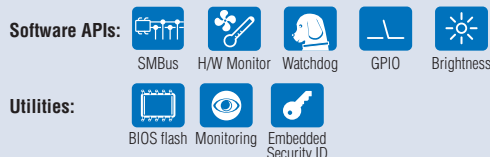
AIMB-222

AMD Mobile Athlon™ II Neo/Turion™ II Neo Mini-ITX with CRT/LVDS/HDMI/DVI, 4 COM and Dual LAN



Features

- Supports AMD Mobile Athlon™ II Neo/AMD Turion™ II Neo ASB2 BGA processors
- Two 204-pin SODIMM up to 4 GB DDR3 1066 MHz SDRAM
- Supports CRT/LVDS/HDMI, DVI is optional
- Dual LANs, 4COM, Mini PCIe, and CFast
- Supports SUSIAccess and Embedded Software APIs

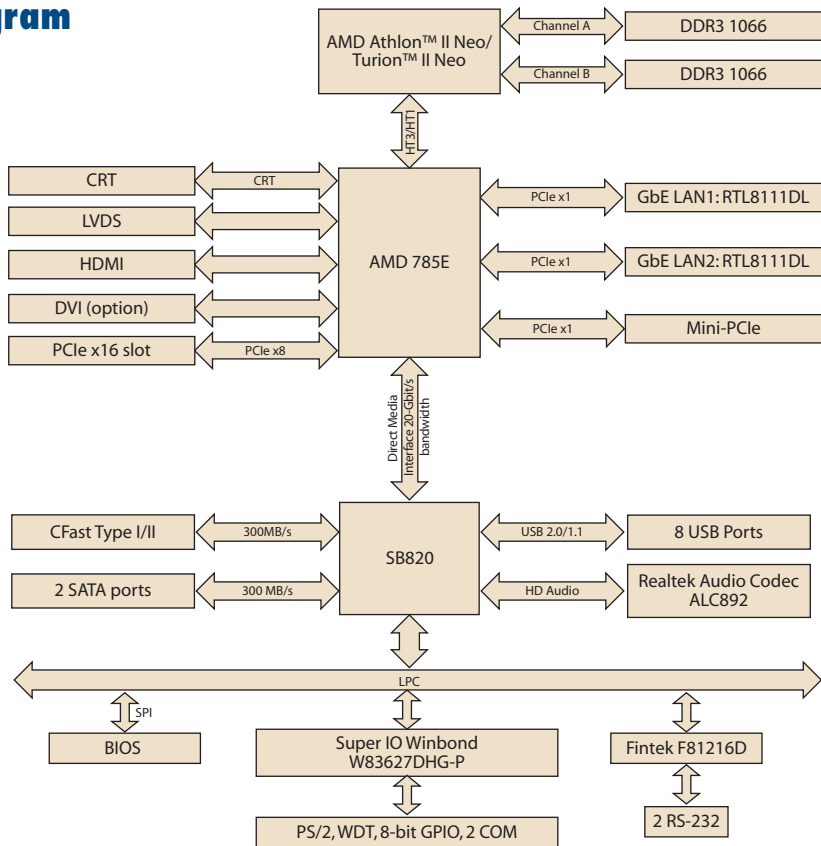


Note: eSOS requires ODM BIOS, available by request

Specifications

| | | | | |
|--------------------------|------------------------|--|-----------------------------|-------------------------------|
| Processor System | CPU | AMD Turion II Neo | AMD Turion II Neo | AMD Athlon II Neo |
| | Max. Speed | 2.2 GHz (dual-core 25W TDP) | 1.5 GHz (Dual-Core 15W TDP) | 1.7 GHz (Single-Core 12W TDP) |
| | L2 Cache | 2 MB | | |
| | Chipset | AMD 785E + SB820 | | |
| | BIOS | AMI 16 Mbit SPI | | |
| Expansion Slot | PCI | - | | |
| | Mini-PCIe | 1 | | |
| Memory | Technology | Dual channel DDR3 1066 MHz SDRAM | | |
| | Max. Capacity | 4 GB | | |
| | Socket | 2 x 204-pin SODIMM (Non-ECC) | | |
| Graphics | Controller | ATI Radeon™ HD4200 serial, supports OpenGL 2.0, DirectX10, H.264, VC1 | | |
| | VRAM | Side port memory 128 MB (Optional) | | |
| | CRT | Supports up to 2560 x 1536 @ 32bpp | | |
| | LVDS | Supports 24-bit dual channel and up to 1920 x 1200 | | |
| | DVI (optional) | 1920 x 1200 @ 60 MHz | | |
| | HDMI | 1920 x 1200 @ 60 MHz | | |
| Ethernet | Dual Display | Supports dual display of any two display device (CRT, LVDS, HDMI, DVI) | | |
| | Interface | 10/100/1000 Mbps | | |
| | Controller | GbE LAN1: RTL8111DL; GbE LAN2: RTL8111DL | | |
| SATA | Connector | RJ-45 x 2 | | |
| | Max Data Transfer Rate | 300 MB/s | | |
| EIDE | Channel | 2 | | |
| | Mode | None | | |
| SSD | Channel | None | | |
| | CFast CompactFlash | CFast type I/II | | |
| Rear I/O | CRT | 1 | | |
| | HDMI | 1 | | |
| | Ethernet | 2 | | |
| | USB | 4 | | |
| | Audio | 3 (Mic-in, Line-out, Line-in) | | |
| | Serial | 2 (RS-232) | | |
| Internal Connector | LVDS & Inverter | 1 | | |
| | DVI | 1 (optional) | | |
| | USB | 4 (USB 2.0 compliant) | | |
| | Serial | 2 (RS-232, 5V/12V by jumper selection) | | |
| | IDE | None | | |
| | SATA | 2 | | |
| | CFast CompactFlash | 1 | | |
| | Parallel | None | | |
| Watchdog Timer | GPIO | 8-bit | | |
| | Output | System reset | | |
| Power Requirement | Interval | Programmable 1 ~ 255 sec/min | | |
| | Power On | AMD Turion II Neo Dual Core Processor, 4GB DDR3 DIMM | | |
| | +5 V | +3.3 V | +12 V | +5 VSB |
| | 2.88 A | 0.89 A | 1.79 A | 0.09 A |
| 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 | Display | LAN | COM |
|------------------|---------|-------------------|-----|-----|
| AIMB-222G2-S0A1E | 1.7 GHz | CRT/LVDS/HDMI | 2 | 4 |
| AIMB-222G2-S1A1E | 1.5 GHz | CRT/LVDS/HDMI | 2 | 4 |
| AIMB-222G2-S2A1E | 2.2 GHz | CRT/LVDS/HDMI/DVI | 2 | 4 |

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 |

Packing List

| Description | Quantity |
|-------------------|----------|
| AIMB-222 SBC | 1 |
| SATA HDD cable | 2 |
| Serial port cable | 1 |
| SATA power cable | 2 |
| I/O port bracket | 1 |
| Startup manual | 1 |
| Driver CD | 1 |

Embedded OS/API

| OS/API | Part No. | Description |
|--------------|------------|----------------------------------|
| Win XPE | 2070010940 | WES09 AIMB-222 V4.0 ENG ATIP |
| Software API | TBD | SUSI V3.0 SW API for AIMB-222 XP |

I/O View



AIMB-222G2-S0A1E
 AIMB-222G2-S1A1E
 AIMB-222G2-S2A1E