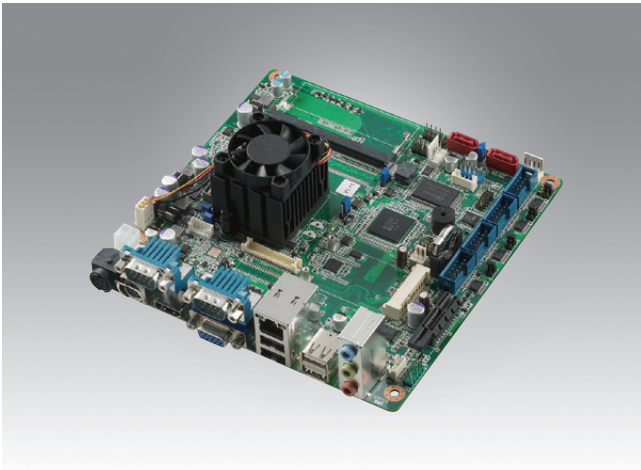


SIMB-M02

Intel® Atom™ Mini-ITX with
VGA/LVDS/HDMI, 6 COMs and LAN



Features

- Intel® N2600 / D2550 processor
- Intel NM10 chipset
- Intel integrated SGX545 support DirectX 10.1
- One 204-pin SODIMM socket supports up to 4GB DDR3 1066MT SDRAM
- Realtek 8111E LAN
- Supports multiple dual display functions : VGA, HDMI, Single channel 18/24-bit LVDS
- 1 x PCIe x 1, 1 x Full Size Mini-PCIe, 1 x CFAST (Optional)
- 6 COM (with power), 2 SATA II
- 7 USB 2.0, TPM 1.2 (Optional)

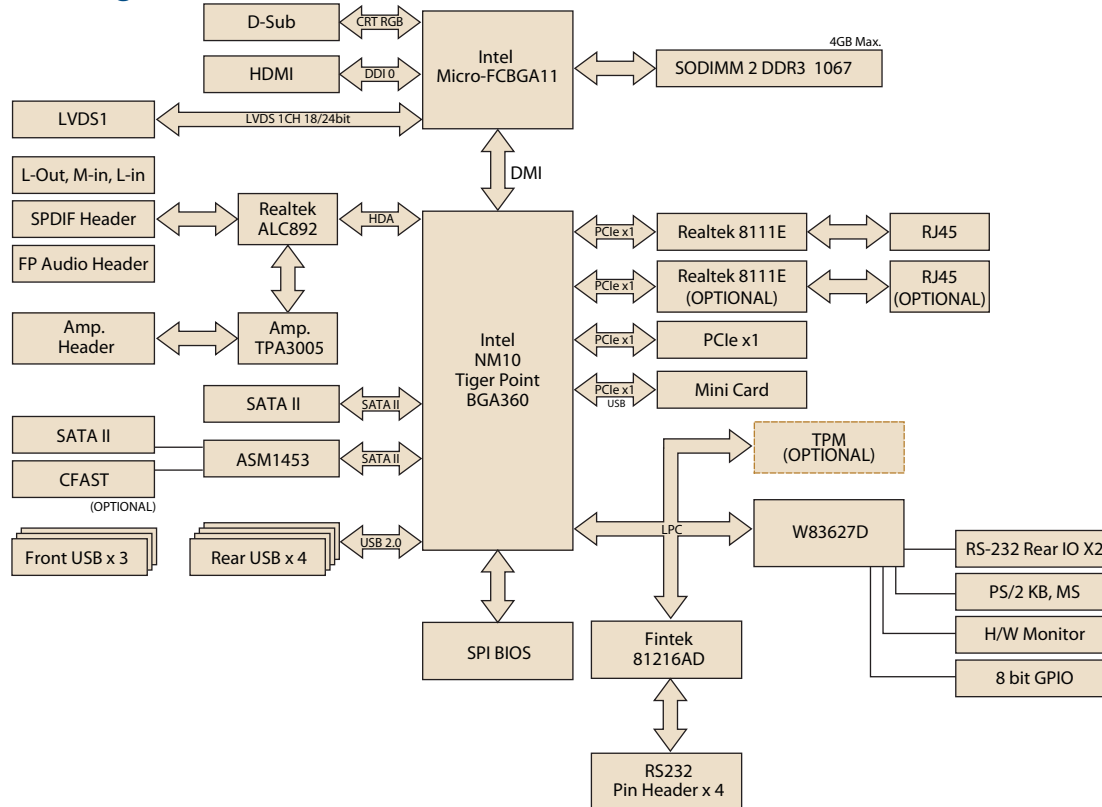


"N2600" series only

Specifications

| | | | |
|--------------------------|------------------------|---|---------------------------|
| Processor System | CPU | N2600 | D2550 |
| | Core Number | 2 | 2 |
| | Max. Speed | 1.6 GHz | 1.86 GHz |
| | L2 Cache | 1 MB | 1M |
| | Chipset | Intel NM10 | |
| | BIOS | FHW 16Mbit, SPI | |
| Expansion Slots | PCIe | 1 | |
| | Full Size Mini-PCIe | 1 | |
| Memory | Technology | Single channel DDR3 1066 MHz | |
| | Max. Capacity | 2 GB (for N2600), 4 GB (for D2550) | |
| | Socket | 1 x 204-pin SODIMM | |
| Graphics | Controller | Intel Graphics Media Accelerator HD 3650 | |
| | VGA | Supports max. resolution 1920 x 1200 | |
| | LVDS | Single channel 18/24-bit LVDS supports max resolution 1366 x 768 | |
| | HDMI | HDMI 1.3 supports max resolution 1920 x 1200 | |
| | Dual Display | VGA + LVDS, VGA + HDMI, LVDS + HDMI | |
| Ethernet | Interface | 10/100/1000 Mbps | |
| | Controller | Realtek 8111E LAN | |
| | Connector | RJ-45 x 1 | |
| SATA | Max Data Transfer Rate | 300 MB/s (SATA II) | |
| SSD | Channel | 2 | |
| | Cfast | Optional (co-lay with SATA II, if it is used, only 1 SATA II can be used) | |
| Rear I/O | VGA | 1 | |
| | HDMI | 1 | |
| | Ethernet | 1 | |
| | USB | 4 (USB 2.0) | |
| | Audio | 3 (Line-out, Line-in, Mic-in) | |
| | Serial | 2 (RS-232 with R1/5V/12V power) | |
| | PS/2 | 1 port (support Y cable) | |
| Internal Connectors | LVDS & Inverter | 1 | |
| | USB | 3 (Pin-header) | |
| | Serial | 4 (RS-232 with R1/5V/12V power) | |
| | SATA | 2 SATA II | |
| | GPIO | 8-bit (4-bit DI and 4-bit DO) | |
| Watchdog Timer | Output | System reset | |
| | Interval | Programmable 1~ 255 sec/min | |
| Security | TPM | Optional | |
| Power Requirements | Typical | Single Voltage 12V DC input by 1 x External DC Jack or 1 x Internal 2x2-pin Power Connector | |
| | | To be measured | |
| Environment | Temperature | Operating | Non-Operating |
| | | 0 ~ 50° C (32 ~ 122° F) | -20 ~ 70° C (-4 ~ 158° F) |
| Physical Characteristics | Dimensions | 170 x 170 mm (6.69" x 6.69") | |

Block Diagram



Ordering Information

| P/N | CPU | Chipset | VGA | GbE | USB | COM | SATA |
|-------------------|-----------------------|------------|-----|-----|------------------------|---------------------------------|-----------|
| SIMB-M02-N2600A1E | Intel N2600 Processor | Intel NM10 | 1 | 1 | 7 (4 Rear, 3 Internal) | 6 x RS-232 (2 Rear, 4 Internal) | 2 SATA II |
| SIMB-M02-D2500A1E | Intel D2550 Processor | Intel NM10 | 1 | 1 | 7 (4 Rear, 3 Internal) | 6 x RS-232 (2 Rear, 4 Internal) | 2 SATA II |

Packing List

| Description | Quantity |
|-----------------------------|------------------|
| SATA cable kit (SATA/POWER) | 1 |
| I/O shield | 1 |
| CPU Cooler | 1 (D2550 only) |
| CPU Heatsink | 1 (N2600 only) |
| Startup manual | 1 (per 20 units) |
| Driver CD | 1 (per 20 units) |

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 two ports, 30.5 cm |

I/O View

