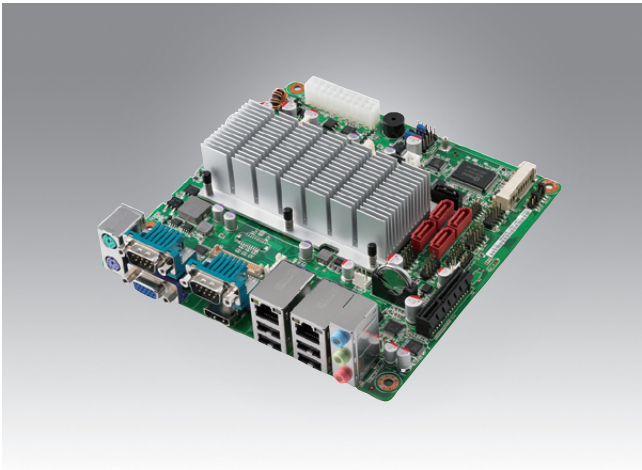


SIMB-M22

AMD Mobile G-series Single Core Mini-ITX with VGA/LVDS/HDMI, 4 COM and Dual LAN



Features

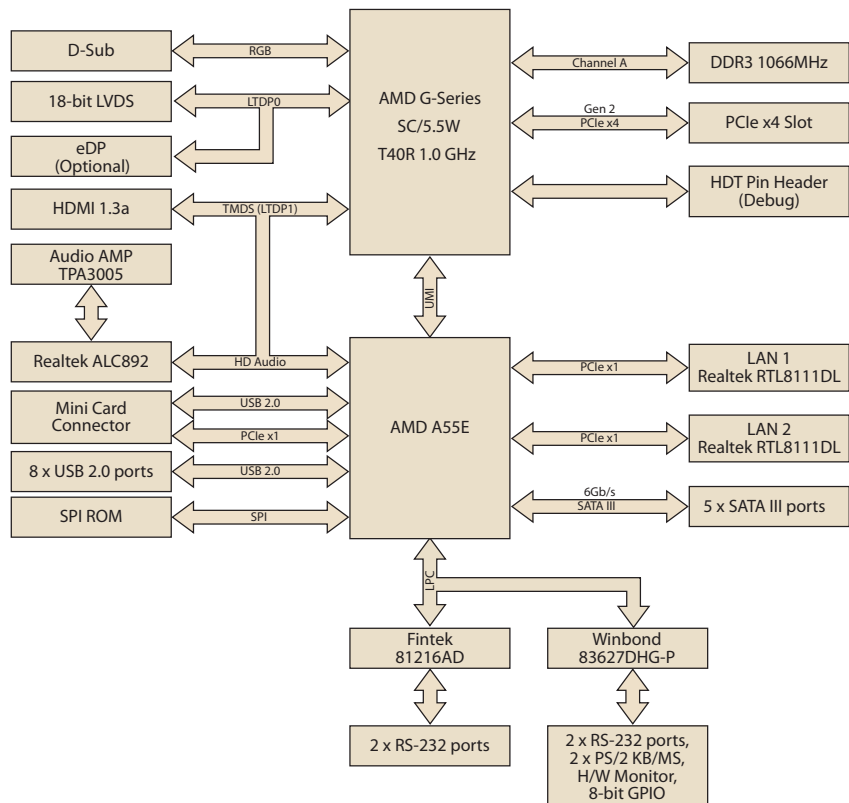
- The latest AMD G-Series APU supports 40 nm process technology
- Supports AMD controller hub A55E
- Fanless design
- AMD Radeon™ HD 6250 graphics engine supports HDMI 1.3a, DirectX 11, OpenGL 4.0, dedicated hardware (UVD 3.0) for H.264, VC-1, MPEG-2 and DivX decoder
- One DDR3 1066 SODIMM, up to 4 GB
- Multiple display I/O supports versatile dual display functions: HDMI, VGA, 18-bit single channel LVDS, eDP (optional)
- Realtek ALC892 supports 5.1 + 2 channel HD audio
- Dual Realtek RTL8111DL Gigabit LAN
- 1 PCIe x4 Gen.2, 1 mini PCIe
- 5 SATA III (6 Gb/s) with RAID 0, 1, 5, 10
- 4 COM (2 powered COM), 8 USB 2.0



Specifications

| | | | | | | |
|--------------------------|-------------------------------------|---|--------|--------|---------------------------|--------|
| Processor System | CPU | AMD Single Core T40R | | | | |
| | Core Number | 1 | | | | |
| | Max. Speed | 1.0 GHz | | | | |
| | L2 Cache | 512 KB | | | | |
| | Chipset | AMD A55E Controller Hub | | | | |
| | BIOS | AMI 16Mbit, SPI | | | | |
| Expansion Slots | PCI | - | | | | |
| | PCIe x4 | 1 GB/s per direction, 1 slot | | | | |
| | PCIe x1 | - | | | | |
| | Full-size Mini PCIe | 1 | | | | |
| Memory | Technology | DDR3 1066/1333 MHz | | | | |
| | Max. Capacity | 4 GB | | | | |
| | Socket | 1 x 204-pin DIMM | | | | |
| Graphics | Controller | AMD Radeon HD 6250 | | | | |
| | VRAM | Shared system memory up to 2 GB SDRAM | | | | |
| | VGA | 1, supports up to 1920 x 1200 | | | | |
| | LVDS | 1, single channel 18-bit LVDS supports max resolution 1400 x 1050 | | | | |
| | HDMI | 1, HDMI 1.3 supports max resolution 1920 x 1080 | | | | |
| | eDP | Optional | | | | |
| Dual Display | VGA + LVDS, VGA + HDMI, LVDS + HDMI | | | | | |
| Ethernet | Interface | 10/100/1000 Mbps | | | | |
| | Controller | GbE-LAN1: Realtek RTL8111DL, GbE-LAN2: Realtek RTL8111DL | | | | |
| | Connector | RJ-45 x2 | | | | |
| SATA | Max Data Transfer Rate | 600 MB/s | | | | |
| | Channel | 5 | | | | |
| SSD | CFast | Optional | | | | |
| Rear I/O | VGA | 1 | | | | |
| | Display Port | - | | | | |
| | HDMI | 1 | | | | |
| | Ethernet | 2 | | | | |
| | USB | 4 (USB 2.0) | | | | |
| | Audio | 3 (Line-out, Line-in, Mic-in) | | | | |
| | Serial | 2 (RS-232) | | | | |
| | PS/2 | 2 (1 x keyboard and 1 x mouse) | | | | |
| Internal Connectors | LVDS & Inverter | 1 | | | | |
| | DVI | - | | | | |
| | USB | 4 (USB 2.0) | | | | |
| | Serial | 2 (RS-232) | | | | |
| | IDE | - | | | | |
| | SATA | 5 (SATA III) | | | | |
| | CFast | Optional | | | | |
| | Parallel | - | | | | |
| | GPIO | 8-bit (4-bit DI and 4-bit DO) | | | | |
| Watchdog Timer | Output | System reset | | | | |
| | Interval | Programmable 1~ 255 sec/min | | | | |
| Power Requirements | Power On | +12 V | +5 V | +3.3 V | 5 Vsb | -12 V |
| | | 0.73 A | 1.46 A | 0.44 A | 0.07 A | 0.06 A |
| 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") | | | | |

Board Diagram



Ordering Information

| P/N | VGA | GbE | USB | COM | SATA |
|-------------------|-----|-----|------------------------|-------------------------------|------------|
| SIMB-M22-2G2S0A1E | 1 | 2 | 8 (4 Rear, 4 Internal) | 4 RS-232 (2 Rear, 2 Internal) | 5 SATA III |

Note: Minimum order quantity is 200 pieces

Packing List

| Description | Quantity |
|-----------------------------|------------------|
| SATA cable kit (SATA/POWER) | 1 |
| I/O shield | 1 |
| 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

