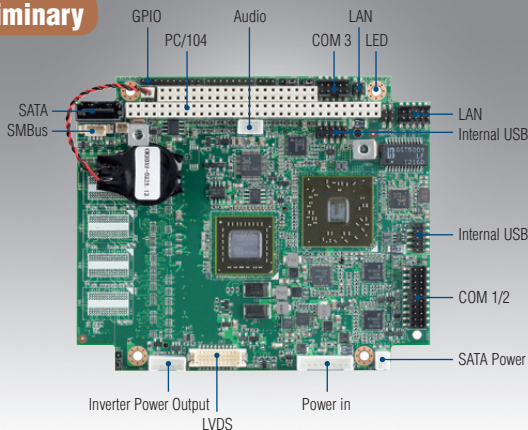


PCM-3356

AMD T16R PC/104 SBC, VGA, LVDS, LAN, USB, COM, SATA

Preliminary



susiAccess  CE FCC

Features

- AMD® G-Series™ Processor T16R 615 MHz
- Supports up to 4 GB DDR3 SODIMM or 1 GB DDR3 on-board memory
- Support 18-bit LVDS and VGA
- Supports 3 COM ports, 4 USB 2.0 ports, dual GbE and audio codec
- Support extended temp: -40 ~ 85C, HALT applied
- Expansion: PC/104 and miniPCIe
- Supports SUSIAccess and Embedded Software APIs

Software APIs:



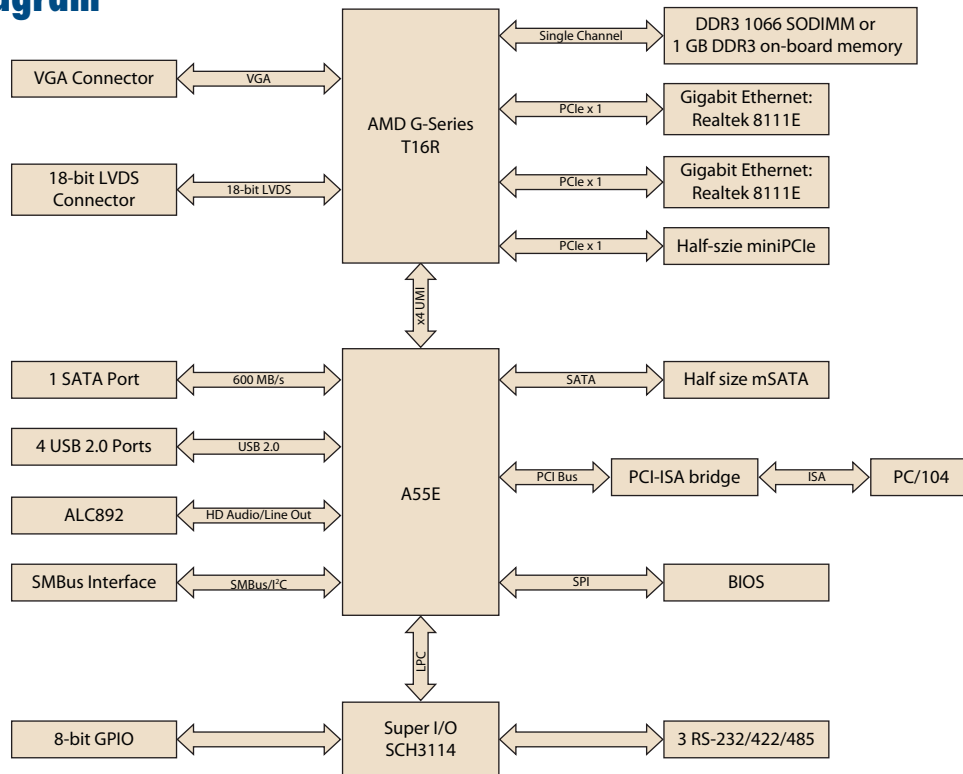
Utilities:



Specifications

| | | |
|--------------------------|--------------------------------------|---|
| Processor System | CPU | AMD® G-Series™ Processor T16R 615MHz |
| | Frequency | 615 MHz |
| | L2 Cache | 512 KB |
| | System Chipset | AMD G-Series + A55E |
| | BIOS | AMI 32-Mbit |
| Memory | Technology | DDR3 1066 MHz |
| | Max. Capacity | 4 GB |
| | Socket | 1 x 204-pin SODIMM |
| | On board memory | 1 GB DDR3 800 MHz |
| Display | Chipset | AMD G-Series |
| | Graphic Engine | DirectX 11 graphics with UVD 3.0, Open CL 1.1, Open GL 4.0 Hardware decode (UVD 3) for H.264, VC-1 and MPEG2 |
| | VRAM | Optimized shared memory Architecture up to 384 MB system memory |
| | LVDS | Supports up to 1440 x 900 or 1400 x 1050 @ 18-bit LVDS |
| | VGA | Supports up to 1920 x 1200 at 85Hz |
| Ethernet | Dual Display | LVDS + VGA |
| | Interface | 10/100/1000 Mbps |
| | Controller | LAN1: Realtek RTL8111E-VB-GR LAN2: Realtek RTL8111E-VB-GR |
| | Connector | Box header |
| Audio | Chipset | ALC892 Codec (default) /ALC886 co-lay |
| WatchDog Timer | | Output System reset, Programmable 1 ~ 255 sec |
| Internal I/O | SATA | 1 x SATA 2.0 |
| | Half size mSATA | 1 |
| | USB | 4 x USB 2.0 |
| | Serial | 3 x RS-232/422/485 with auto flow control |
| | SMBUS | 1 |
| | GPIO | 8-bit GPIO |
| | I²C | TBD |
| Expansion | PC/104 slot | 1 |
| | Mini PCI Express | 1 |
| Power | Power Type | AT/ATX |
| | Power Supply Voltage | 5V only to boot up (12 V is optional for LCD inverter and add on card) |
| | Power Consumption (Typical) | 1.38 A @ +5 V (6.9 Watt) |
| | Power Consumption (Max, test in HCT) | 1.65 A @ +5 V (8.25 W) |
| | Power Management | ACPI 4.0 |
| | Battery | Lithium 3 V / 210 mAh |
| Environment | Operation | 0 ~ 60° C (32 ~ 140° F) (Operational humidity: 40° C @ 85% RH non-condensing) |
| | Non-Operation | -40° C ~ 85° C and 60° C @ 95% RH non-condensing |
| Physical Characteristics | Dimensions (L x W) | 96 x 115 mm (3.8" x 4.5") |
| | Weight | TBC |
| | Height | Top Side:19.5 mm (F), Bottom Side:10.6 mm |

Block Diagram



Ordering Information

| Part Number | CPU | Memory | VGA | LVDS | GbE | USB 2.0 | RS-232/422/485 | Audio | mSATA | miniPCIe | Expansion | Thermal Solution | Operating Temp |
|--------------------|------|--------------------|-----|--------|-----|---------|----------------|-------|-------|----------|-----------|------------------|----------------|
| PCM-3356F-1GM0A1E | T16R | 1 GB DDR3 on board | 1 | 18-bit | 2 | 4 | 3 | Yes | 1 | 1 | PC/104 | Passive | 0 ~ 60° C |
| PCM-3356F-M0A1E | T16R | SO-DIMM | 1 | 18-bit | 2 | 4 | 3 | Yes | 1 | 1 | PC/104 | Passive | 0 ~ 60° C |
| PCM-3356Z-1GM0A1E | T16R | 1 GB DDR3 on board | 1 | 18-bit | 2 | 4 | 3 | Yes | 1 | 1 | PC/104 | Passive | -20 ~ 80° C |
| PCM-3356Z2-1GM0A1E | T16R | SO-DIMM | 1 | 18-bit | 2 | 4 | 3 | Yes | 1 | 1 | PC/104 | Passive | -40 ~ 85° C |

Packing List

| Part No. | Description | Quantity |
|----------------|--|----------|
| | PCM-3356 SBC | |
| | Startup Manual | |
| 1700018799 | M Cable SATA 7P/SATA 7P 90/180 25cm | 1 |
| 1700000898 | VGA cable D-SUB 15P(F)/12P-1.25MM 14CM x1 | 1 |
| 1703100121 | 2*5P-2.0/USB-A(F)*2 12CM x2 | 2 |
| 1701200220 | COM RS232 Cable 2*10P-2.0/D-SUB 9P(M)*1 22CM x1 | 1 |
| 1700019414 | COM RS422/485 Cable 2*5P-2.0/D-SUB 30CM x1 | 1 |
| 1700003491 | ATX/AT power cable 1*8P-2.0/B4P-5.08*2 15cm x1 | 1 |
| 1700018259 | SATA power cable for 5V connector, 1*5P-3.81/1*2P-2.0 20CM C=R,B | 1 |
| 1700020638-01 | Audio cable 1*3P-2.0/Phone JACK 20cm x1 | 1 |
| 1700017863 | LAN cable RJ45/2*5P-2.0 15cm x2 | 2 |
| 1960058627T001 | Heatsink for PCM-3356 (105 x 77.97 x 19.5 mm) | 1 |
| 9689000002 | mini jumper pack (black) x1 | 1 |
| 9660104000 | PC/104 screw and copper post package x1 | 1 |

Optional Accessories

| Part No. | Description |
|------------|--|
| 1703150102 | SATA Power cable B4P-5.08/SATA 15P 10cm x1 |

Embedded OS/API

| Embedded OS/API | Part No. | Description |
|-----------------|----------|-------------|
| Windows 8 | | WES8 |
| Win7 | | WES7 |
| Win XPE | | |
| WinCE | | |
| Linux | | |
| VxWorks | | |
| QNX | | |