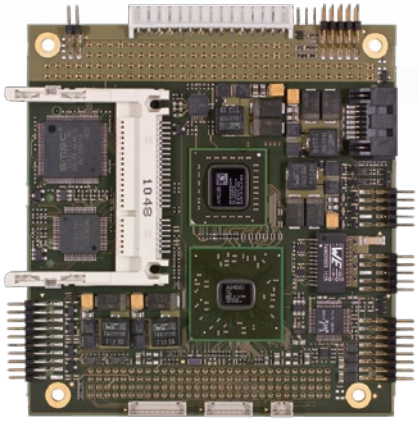
CoreModule®2-GF

PC/104-Plus Single Board Computer with AMD® G-Series Processor



Features

- AMD Fusion® APU, single and dual core
- Up to 4 GB DDR3 RAM
- Graphics: Radeon HD6320 (T56N), Radeon HD6250 (T40R)
- LVDS: 1920 x 1200 resolution
- Gigabit Ethernet, 6x USB 2.0
- SATA port
- High Definition Audio
- Power consumption: max. 18 W
- Extended temperature range: -40°C +85°C
- Supports Smart Embedded Management Agent (SEMA) functions

Specifications

Core System

Processor	AMD® T40R, 1.0 GHz, single core
	AMD® T56N, 1.65 GHz, dual core
BIOS	EFI
	2x SPI Flash (fail save)
Board Format	PC/104-Plus
	96 mm x 90 mm (3.775" x 4.050")
Platform controller hub	AMD® Hudson-E1 Fusion
ISA Bus	PC/104 via LPC to ISA bridge
PCI Bus	PC/104, 3.3V compliant
	Peripherals need their own 3.3V supply
SPI Bus	Yes
Watchdog	Yes (1 second to 255 minutes)
PS/2	Yes

Video

Graphics	Radeon HD6320, 500MHz (T56N)
	Radeon HD6250, 280MHz (T40R)
VGA	Yes
LVDS	Dual channel, 18/24-bit
	1920 x 1200 pixel at 60 Hz

Audio

HD audio	ALC886

Ethernet

10/100/1000 Mbit

Multi I/O and Storage

RAM (max.)	Up to 4GB DDR3 SO-DIMM
USB	6x USB 2.0
Serial	2x RS-232/422/485
SATA	1x SATA 6 Gb/s
	1x CFast slot

Super I/O

	SCH3112
GPIO	8

Power

RTC Backup	Lithium battery, CR1225 replaceable
Power Supply	5 V ±5 %
	All voltages are generated on-board
Power Consumption	10W to 18W, depending on processor and memory
SEMA	Condition monitoring, with power sense

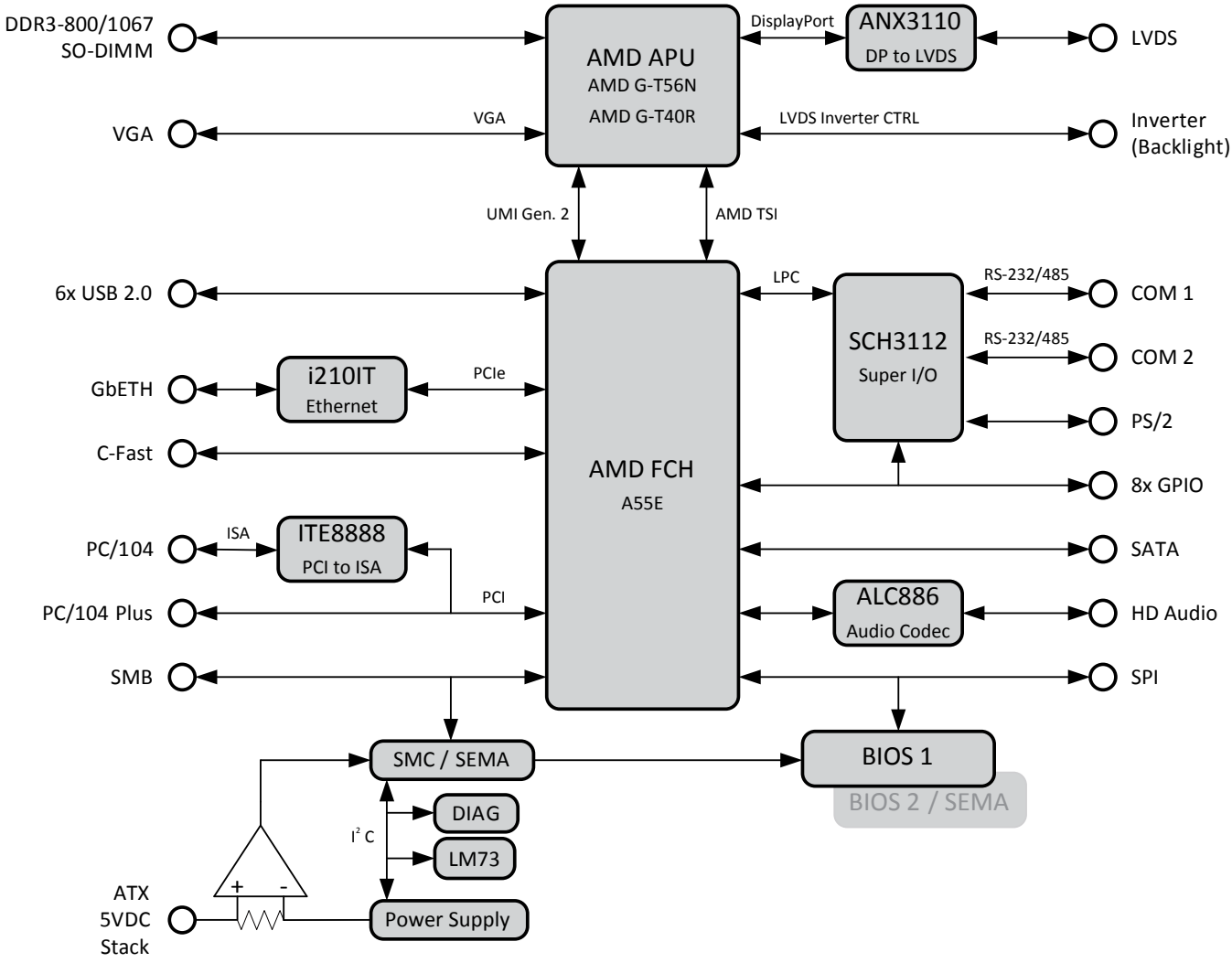
Mechanical and Environmental

Cooling	T40R: passive
	T56N: active
MTBF	172.356 hours at 25°C
Operating Temperature	Standard: 0°C to +60°C
	Industrial: -20°C to +70°C
	Extended: -40°C to +85°C (only T40R)
Panel Backlight	+12 V, +5 V, including control signal
Shock/Vibration	Non-operating: 40G peak-to-peak, 11ms duration, MIL-STD-202G Method 213B
	Operating: 11.95 Grms, 50-2000 Hz, each axis, MIL-STD-202G Method 214A
Status LED	HDD, power mode,
	live, 2x Ethernet, watchdog

Operating Systems

Standard Support	Windows XP, Windows 7, Windows Embedded Standard 7, Linux

Functional Diagram



Ordering Information

Modules

Model Number	Description/Configuration
703-0028-10	PC/104-*Plus*, CM2-GF, AMD T56N, 1.65 GHz DC, incl. heat spreader, 0°C to +60°C
803-0028-10	PC/104-*Plus*, CM2-GF, AMD T56N, 1.65 GHz DC, incl. heat spreader, -20°C to +70°C
703-0029-10	PC/104-*Plus*, CM2-GF, AMD T40R, 1.0 GHz SC, incl. heat spreader, 0°C to +60°C
803-0029-10	PC/104-*Plus*, CM2-GF, AMD T40R, 1.0 GHz SC, incl. heat spreader, -20°C to +70°C
903-0029-10	PC/104-*Plus*, CM2-GF, AMD T40R, 1.0 GHz SC, incl. heat spreader, -40°C to +85°C

Accessories

Model Number	Description/Configuration
760-0029-10	RAM, DDR3, SO-DIMM, 2GB, 0°C to +60°C
960-0029-10	RAM, DDR3, SO-DIMM, 2GB, -40°C to +85°C
760-0030-10	RAM, DDR3, SO-DIMM, 4GB, 0°C to +60°C
960-0030-10	RAM, DDR3, SO-DIMM, 4GB, -40°C to +85°C
763-0022-10	Cable set, CM2-GF
765-0049-11	Heat sink, passive, CM2-GF
765-0049-12	Heat sink, active, CM2-GF

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