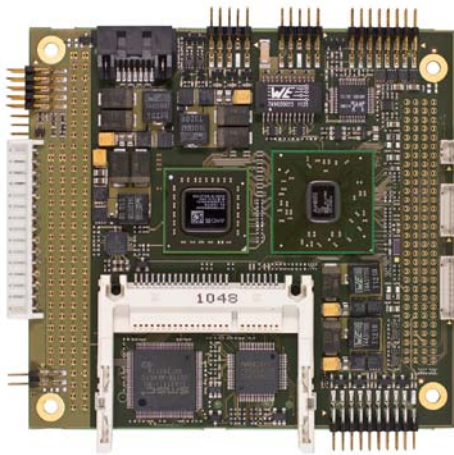


Cool FrontRunner-AF

PC/104-Plus Single Board Computer

AMD G-Series Processor



Outstanding Graphics Features

The accelerated processing unit (APU) supports single or dual-independent high resolution displays and exceptional multi-media capability with hardware decode support for H.264, VC-1, MPEG2, WMV, DivX and Adobe Flash.

DirectX® 11 support guarantees awesome graphics performance, stunning 3D visual effects and dynamic interactivity. Advanced discrete-level GPU with OpenGL 4.0 and OpenCL™ 1.1 support in an integrated device provides support to build the designs of tomorrow, today

Unprecedented graphics performance/watt thru advanced graphics and hardware acceleration delivering over 3X performance per watt of previous generation.

Specifications

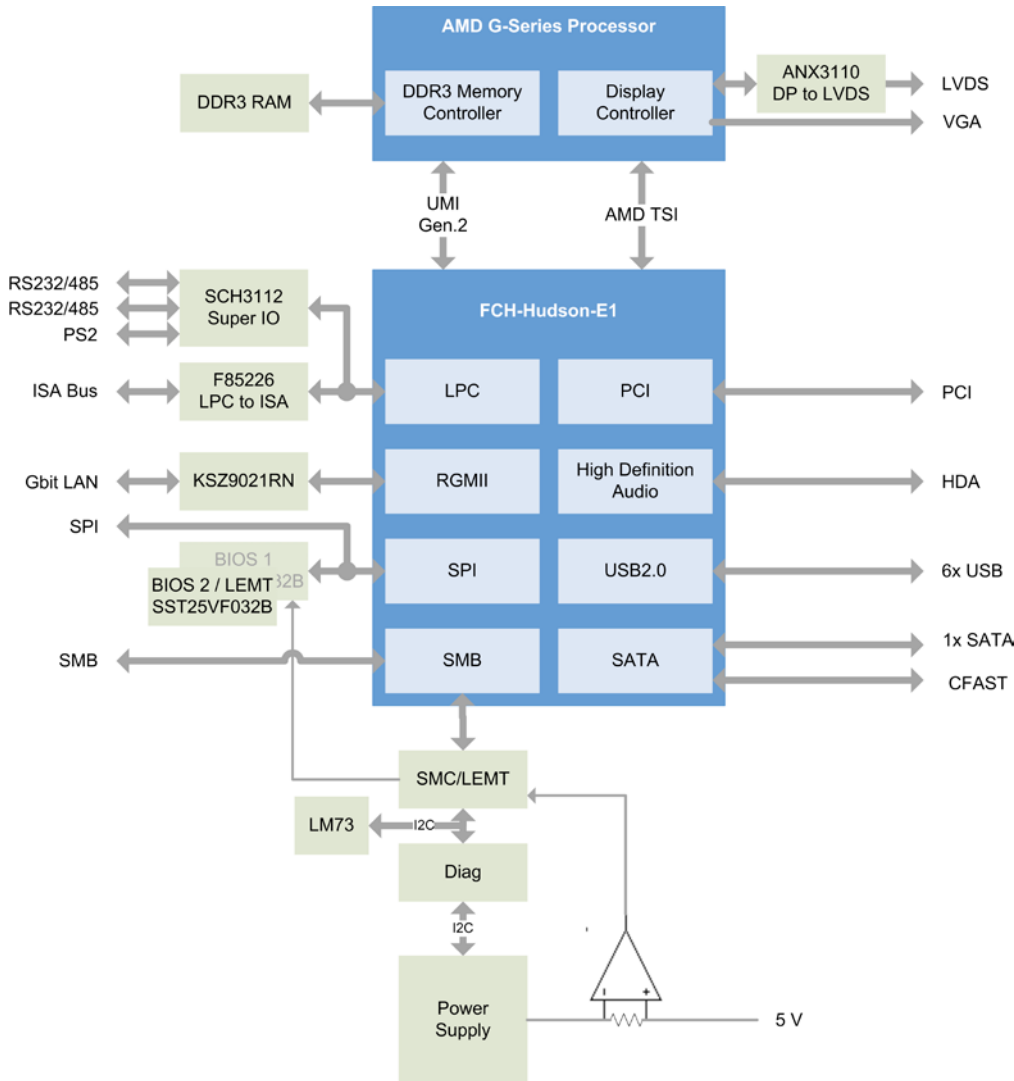
Board Format	PC/104-Plus 96 mm x 90 mm (3.775" x 4.050")	PCI Bus	PC/104-Plus, 3.3V compliant. Peripherals need their own 3.3V supply.
Processor	AMD T40R, 1.0GHz, single core AMD T56N, 1.65GHz, dual core	SPI bus	Yes
Platform controller hub	AMD Hudson-E1 Fusion	Status LED	HDD, power mode, live, 2x Ethernet, watchdog
Super IO	SCH3112	RTC Backup	Lithium battery, CR1225, changeable
RAM (max.)	512 MB ... 4 GB SODIMM, DDR3 1333 (T56N) / 1066 (T40R)	Watchdog	Yes (1 second ... 255 minutes)
Graphics	Radeon HD6250, 280 MHz (T40R) Radeon HD6310, 600 MHz (T56N)	Power Supply	5 V ±5 % All voltages are generated on-board.
VGA	Yes	Power Consumption	10W ... 18W, depending on processor and memory
LVDS	Dual channel, 24 bits 1920x1200 pixel at 60 Hz max.	Cooling	T40R: passive T56N: active
Panel Backlight	+12V, +5V, including control signal	MTBF	172.356 hours at 25°C
Audio	HD audio	Operating temperature	0°C...+60°C (commercial, all versions) -20°C...+60°C (industrial, all versions) -40°C...+85°C (extended, only T40R)
USB	6 x USB 2.0 host ports	BIOS	EFI 2x SPI Flash (fail save)
Ethernet	10/100/1000 MBit	LEMT	Condition monitoring, with power sense
Serial	2 x RS232/RS422/RS485	Supported OS	Windows 7, Windows Compact 7 Windows XPe, Windows XP Linux
SATA	1 SATA port 1 CFAST slot		
PS2	Yes		
ISA Bus	PC/104 via LPC to ISA bridge		

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Block Diagram



Ordering Information

Ordering Number	Description
#03-0029-10	PC/104-Plus CPU board with AMD Fusion T40R, 1.0GHz, heat spreader included
703-0028-10	PC/104-Plus CPU board with AMD Fusion T56N, 1.6GHz, heat spreader included. Commercial temperature range 0°C...+60°C
803-0028-10	PC/104-Plus CPU board with AMD Fusion T56N, 1.6GHz, heat spreader included. Industrial temperature range -20°C...+60°C

Note: # denotes the temperature range. Use 7 for commercial, 8 for industrial and 9 for extended temperature range