

Toucan-AF

COM Express Module

AMD G-Series Processor



COM Express

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

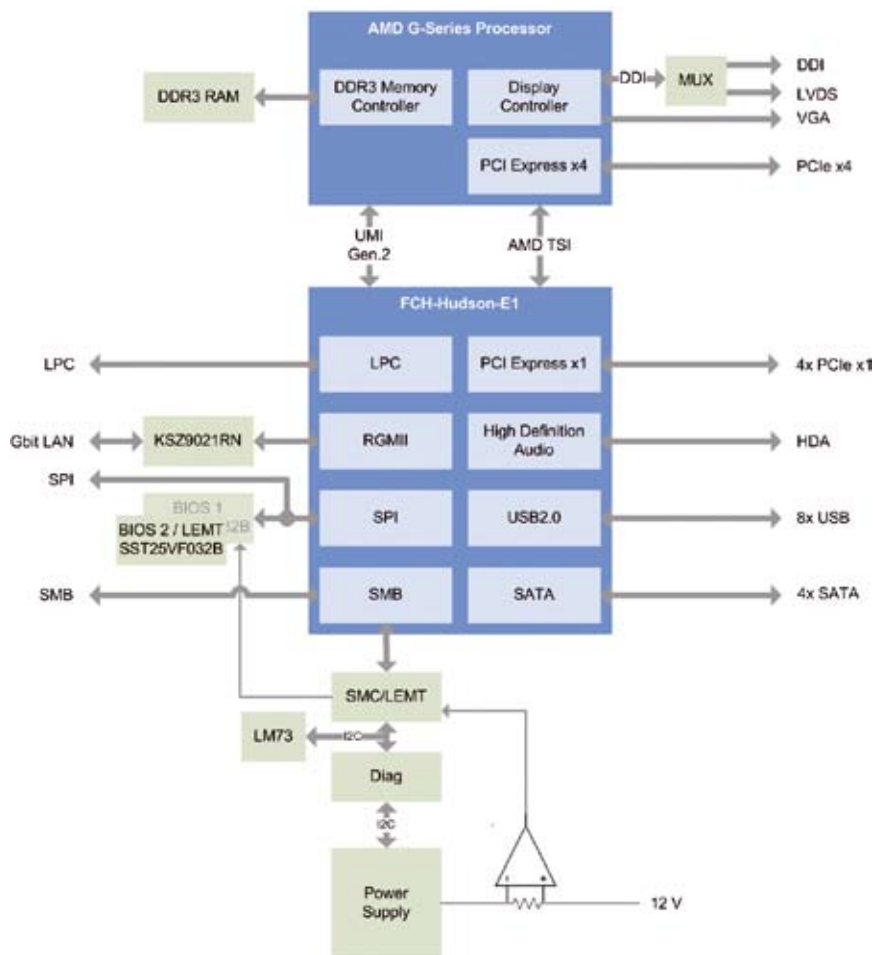
Board Format	COM Express Compact Type 6 95 mm x 95 mm (3.74" x 3,74")
Processor	AMD T40R, 1.0GHz, single core AMD T56N, 1.65GHz, dual core
Platform controller hub	AMD Hudson-E1 Fusion
RAM (max.)	1 GB or 2 GB soldered, 4 GB optional DDR3 1333 (T56N) / 1066 (T40R)
Graphics	Radeon HD6250, 280 MHz (T40R) Radeon HD6310, 600 MHz (T56N)
LVDS	Single channel, 18 bits 1440x900 or 1400x1050 pixel at 60 Hz max.
Panel Backlight	Control signal available
Digital Display Interface	2 configurable
VGA	Yes
Audio	HD audio
USB	8 x USB 2.0 host ports
Ethernet	10/100/1000 MBit
SATA	4 SATA ports

LPC bus	Yes
SPI bus	Yes
PCI Express bus	4 x PCI Express 2.0 x1 lanes 1 x PCI Express 2.0 x4 lane on PEG
Watchdog	Yes (1 second ... 255 minutes)
Power Supply	12 V ±5 % All voltages are generated on-board.
Power Consumption	10 W ... 22 W, depending on processor and memory
Cooling	T40R: passive T56N: active
MTBF	(t.b.d) hours at 25°C
Operating temperature	0°C...+60°C (commercial, all versions) -20°C...+60°C (industrial, all versions) -40°C...+85°C (extended, only T40R)
BIOS	PHOENIX UEFI Secure Core Tiano 2x SPI Flash (fail safe)
LEMT	Condition monitoring, with power sense
Supported OS	Windows 7, Windows Compact 7 Windows XPe, Windows XP Linux

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Block Diagram



Ordering Information

Ordering Number	Description
†09-0017-10	COM Express module with AMD Fusion T40R, 1.0GHz, 1 GB, heat spreader included
†09-0018-10	COM Express module with AMD Fusion T40R, 1.0GHz, 2 GB, heat spreader included
†09-0019-10	COM Express module with AMD Fusion T56N, 1.56GHz, 1 GB, heat spreader included
†09-0020-10	COM Express module with AMD Fusion T56N, 1.56GHz, 2 GB, heat spreader included

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