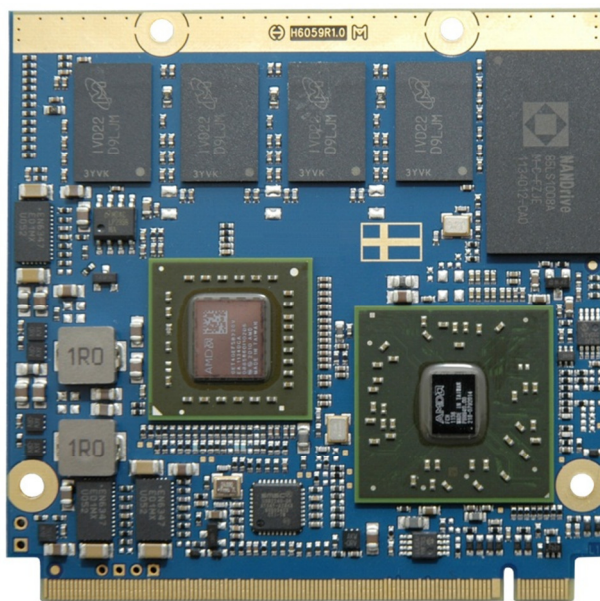


The H6059 is a compact (70mm x 70mm) high-performance, low power COM module based on the AMD Embedded G-series APUs with single or dual X86 cores and the A55E embedded chipset. The APUs have the powerful Radeon 6250 GPU built in. The Qseven form factor makes H6059 a legacy free module with a full range of contemporary low voltage differential serial interfaces such as PCI Express and USB 2.0 and display interfaces such as DisplayPort, HDMI, DVI and LVDS. BIOS supports legacy Super I/O on the carrier board.

Qseven modules are defined for low cost and ruggedness, with an MXM type edgecard connector interfacing the carrier board. H6059 has soldered memory and optional on-board SSD. Hectronic is planning to offer H6059 with optional conformal coating and to release versions for extended/industrial temperature range during 2012.



Features

- AMD Embedded G-Series APU
- Soldered DDRIII DRAM
- Onboard NANDrive Flash SSD
- 2 x SATA ports
- 4 x PCIe ports
- Gigabit Ethernet
- 8 x USB 2.0 Ports
- LVDS, DisplayPort, DVI/HDMI
- HD Audio
- RTC
- Fully RoHS compliant
- Windows XP Embedded, Windows 7, Windows 7 Embedded, Windows XP, Windows XP Professional, Windows Vista and Linux supported

Technical Specifications

APU (CPU+GPU)	AMD G-Series APU - T40R (max. 5.5W TDP) - T40E (max. 6.4W TDP) 1.0 GHz, single/dual core, GPU built-in	Integrated Graphics	Integrated 2D/3D/MPEG hardware acceleration with UMA memory GPU: Radeon 6250
Chipset	A55E	Ethernet	Intel 82583 Gbit controller
Memory	Soldered DDRIII RAM 1GB/2GB/4GB	Serial Interface	I2C/SM Bus interface
Onboard SSD	SATA BGA NAND SSD 0-32 GB	BIOS	Phoenix SecureCore Tiano UEFI
SATA	2 x SATA ports	Display interface	18-bit LVDS, Displayport, DVI/HDMI
Battery management	Support for Smart battery implementation on carrier board	Audio	Support for HDA audio codec on carrier board
Power management	ACPI 3.0b compliant Support for S3 and S4	Power	+5V +/-5%
Serial Port	Support for Super I/O on carrier board	Operating Temperature	Standard: 0°C to +60°C Wide temperature versions to be announced
SDIO	1 x SDIO port	Humidity	10 to 90% (operating) 5 to 95% (storage)
USB	8 x USB 2.0 EHCI compliant ports	Dimensions	70mm x 70mm
PCIe ports	4 ports for PCIe x1		
LPC bus	1 x LPC		

Options

H6059-01: Qseven module with AMD G-series APU T40E, 2GB DDR3, 8GB SATA Flash SSD

H6059-02: Qseven module with AMD G-series APU T40R, 1GB DDR3, 2GB SATA Flash SSD

H4103: Reference carrier board for Qseven modules

Additional versions can be offered based on customization of the existing H6059.

Additional H6059 standard versions will be released.