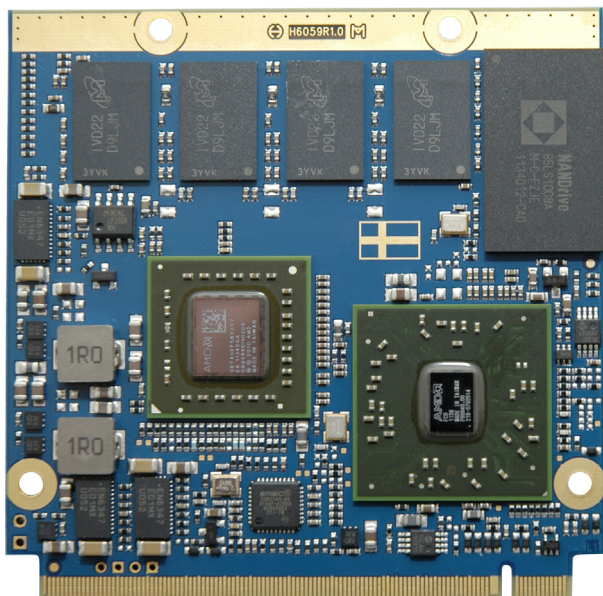


# H6059

## Qseven module with AMD G-series APU



The H6059 is a compact (70mm x 70mm) high-performance, low power COM module based on the AMD Embedded Gseries 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. H6059 is available in a version for Industrial operating temperature range.

### FEATURES

- AMD Embedded G-Series APU
- Soldered DDR3 DRAM
- Industrial temperature range option
- 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.

### LOOKING FOR SOMETHING SLIGHTLY DIFFERENT?

In most cases standard products can be customized to specification. With small modifications to hardware and software, you can have the quality and functions you need.

Call us. We will be happy to suggest and implement changes in standard products to meet your requirements exactly.

# H6059 - Technical Specifications

## APU (CPU+GPU)

AMD G-Series APU, single or dual core with built-in GPU.  
- T16R (615MHz, 4.5W TDP)  
- T40R (1.0GHz, 5.5W TDP)  
- T40E (1.0GHz, 6.4W TDP)

## CHIPSET

A55E

## MEMORY

Soldered DDRIII RAM  
1GB/2GB/4GB

## ONBOARD SSD

SATA BGA NAND SSD  
0-32 GB

## SATA

2 x SATA ports

## BATTERY MANAGEMENT

Support for Smart battery implementation on carrier board

## POWER MANAGEMENT

ACPI 3.0b compliant

Support for S3 and S4

## SERIAL PORT

Support for Super I/O on carrier board

## SD Card

1 x SD Card

## USB

8 x USB 2.0 EHCI compliant ports

## PCIE PORTS

4 ports for PCIe x1

## LPC BUS

1 x LPC

## INTEGRATED GRAPHICS

Integrated 2D/3D/MPEG hardware acceleration with UMA memory

GPU: AMD Radeon HD 6250

## ETHERNET

Intel 82583 Gbit controller

## SERIAL INTERFACE

I2C/SM Bus interface

## BIOS

Phoenix SecureCore Tiano UEFI

## DISPLAY INTERFACE

18-bit LVDS, Displayport, DVI/HDMI

## AUDIO

Support for HDA audio codec on carrier board

## POWER

+5V +/-5%

## OPERATING TEMPERATURE

Standard: 0°C to +60°C

Industrial Temp.: -40°C to +85°C

## HUMIDITY

10 to 90% (operating)

5 to 95% (storage)

## DIMENSIONS

70mm x 70mm

## 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

H6059-03: Qseven module with AMD G-series APU T16R, 1GB DDR3, 2GB SATA Flash SSD

H6059-05: Qseven module with AMD G-series APU T40E, Industrial temp., 2GB DDR3, No SSD

H6059-06: Qseven module with AMD G-series APU T40E, Industrial temp., 2GB DDR3, 8GB SATA Flash SSD

H4103: Reference carrier board for Qseven modules

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