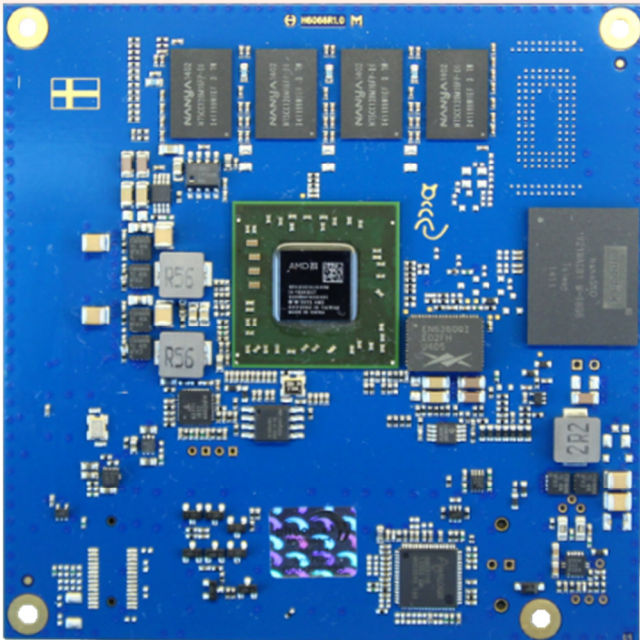


H6068

COM Express Type 6 with AMD Embedded G SOC



H6068 targets applications for harsh environments and in vertical market segments such as Defense, Medical, Transportation, Maritime and Industrial Automation.

The module is equipped with soldered RAM, soldered SSD Flash (optional) and it has processor options for an industrial operating temperature range (-40°C to +85°C). H6068 has wide input power (+4.75V to +20V).

The form factor is COM Express Compact and the pinout is type 6. H6068 is based on the second and third generation AMD Embedded G-series SOC which is both Dual and Quad-Core single-chip processor with integrated AMD Radeon HD 8000E graphics.



FEATURES

- AMD G-series SoC (eKabini, Stepe Eagle)
- COM Express Compact, type 6
- Industrial temperature range (optional)
- Dynamic Boost functionality between CPU and GPU
- Up to 4GB soldered system memory
- AMD Radeon HD8000 Graphics
- Optional on-board soldered SATA SSD
- Configurable TDP on some CPU's (cTDP)

LOOKING FOR SOMETHING SLIGHTLY DIFFERENT?

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

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

H6068 – Technical Specifications

SOC (CPU+GPU+I/O)

AMD Embedded GX-210JC SOC
-40°C to +85°C, 1.0GHz, Dual Core, 6W TDP

AMD Embedded GX-216HC SOC
-40°C to +85°C, 1.6GHz, Dual Core, 10W TDP

AMD Embedded GX-411GA SOC
-40°C to +85°C, 1.1GHz, Quad Core, 15W TDP

AMD Embedded GX-424CC SOC
0°C to +60°C, 2.4GHz, Quad Core, 25W TDP

AMD Embedded GX-412HC SOC
0°C to +60°C, 1.2/1.6GHz, Quad Core, 7W TDP

AMD Embedded GX-222GC SOC
0°C to +60°C, 2.2GHz, Dual Core, 15W TDP

AMD Embedded GX-420CA SOC
0°C to +60°C, 2.0GHz, Quad Core, 25W TDP

AMD Embedded GX-212JC SOC
0°C to +60°C, 1.2/1.4GHz, Dual Core, 6W TDP

MEMORY

Soldered DDR3 RAM, prepared for up to 4GB

ONBOARD SSD

SATA BGA NAND SSD 0-32 GB

SATA

1 x SATA ports

(2 x SATA ports if no on-board SSD)

POWER MANAGEMENT

ACPI 3.0 compliant

Support for S3 and S5

SERIAL PORT

Support for Super I/O on carrier board

SDIO

1 x SDIO port

USB

2 x USB 3.0

8 x USB 2.0

PCIe PORTS

3 ports for PCIe x1

1 port for PCIe x4

LPC BUS

1 x LPC

INTEGRATED GRAPHICS

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

GPU: AMD Radeon HD 8000 Series

ETHERNET

Intel 82583 Gbit controller on H6068 versions for 0°C to +60°C.

Intel 82574 Gbit controller on H6068 versions for -40°C to +85°C.

SERIAL INTERFACE

I2C/SM Bus interface, SPI bus

BIOS

Phoenix SecureCore

TPM

Option to equip with Trusted Platform Module, TPM

DISPLAY INTERFACE

Dual 24-bit LVDS

Displayport/DVI/HDMI/VGA

AUDIO

Support for HDA audio codec on carrier board

POWER

+4.75V to +20V

OPERATING TEMPERATURE

GX-210JC, GX-216HC, GX-411GA: -40°C to +85°C

GX-424CC, GX-412HC, GX-222GC, GX-420CA, GX-212JC:
0°C to +60°C

HUMIDITY

10 to 90% (operating)

5 to 95% (storage)

FORM FACTOR

COM Express Compact, 95mm x 95mm, pinout type 6