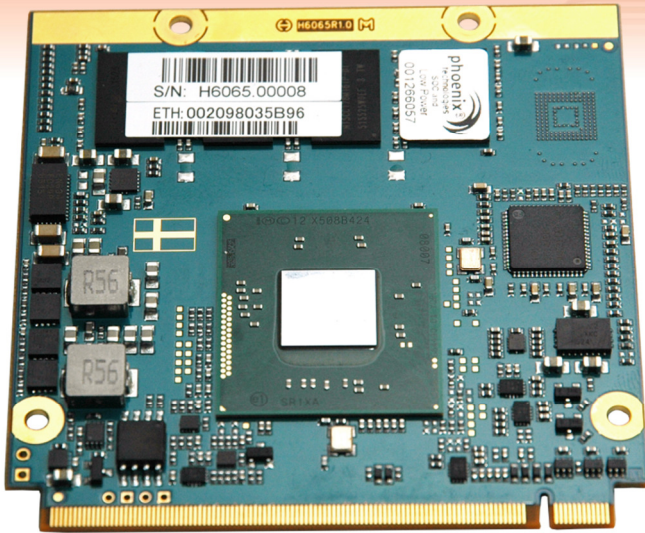


H6065

Qseven module with Intel® Atom™ SOC



The H6065 is a compact (70mm x 70mm) high-performance, low power COM module based on the Intel® Atom™ Baytrail System-on-Chip, SOC. The SOCs have the 7th generation Intel® HD Graphics Engine GPU built in along with a single, dual or quad core CPU and I/O controller.

The Qseven form factor makes H6065 a legacy free module with a full range of contemporary low voltage differential serial interfaces such as PCI Express, USB 3.0 and display interfaces such as DisplayPort, HDMI, DVI and Dual 24-bit LVDS. Qseven modules are defined for low cost and ruggedness, with an MXM type edgcard connector interfacing the carrier board. H6065 has soldered memory and optional on-board eMMC Flash.

The H6065 is available in both standard and industrial grade operating temperature.



FEATURES

- Single, Dual or Quad core Intel® Atom™ SOC
- 7th generation Intel® HD Graphics Engine
- Industrial temperature range (-40°C to +85°C)
- Optional on-board eMMC Flash storage (MLC/pSLC)
- Soldered DDR3 RAM memory
- Dual 24-bit LVDS and DisplayPort or DVI or HDMI

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.

H6065 – Technical Specifications

SOC (CPU+GPU+I/O)

Intel® Atom™ E3845 SOC
(Quad Core, 1.91GHz, 10W TDP, -40°C to +85°C)

Intel® Atom™ E3827 SOC
(Dual Core, 1.75GHz, 8W TDP, -40°C to +85°C)

Intel® Atom™ E3826 SOC
(Dual Core, 1.46GHz, 7W TDP, -40°C to +85°C)

Intel® Atom™ E3825 SOC
(Dual Core, 1.33GHz, 6W TDP, -40°C to +85°C)

Intel® Atom™ E3815 SOC
(Single Core, 1.46GHz, 5W TDP, -40°C to +85°C)

Intel® Celeron™ N2930 SOC
(Quad Core, 1.83GHz, 7.5W TDP, 0°C to +60°C)

Intel® Celeron™ N2807 SOC
(Dual Core, 1.58GHz, 4.3W TDP, 0°C to +60°C)

Intel® Celeron™ J1900 SOC
(Quad Core, 2.0GHz, 10W TDP, 0°C to +60°C)

MEMORY

Soldered DDR3 RAM, Prepared for up to 4GB

ONBOARD Flash Storage (optional)

eMMC, up to 128 GB, configurable as MLC or pSLC

SATA

2 x SATA ports

BATTERY MANAGEMENT

Support for Smart battery implementation on carrier board

POWER MANAGEMENT

ACPI 5.0 compliant Support for S3 and S4

SERIAL PORT

1 x COM (Tx, Rx, RTS, CTS)

BIOS Support for Super I/O on Carrier Board

SDIO

1 x SDIO port

USB

1 x USB 3.0

4 x USB 2.0

PCIe PORTS

3 ports for PCIe x1 Gen 2.0

LPC BUS

1 x LPC

INTEGRATED GRAPHICS

Integrated 2D/3D/MPEG hardware acceleration

GPU: 7th generation Intel® HD Graphics Engine

ETHERNET

Intel® i210/i211 Gigabit Ethernet controller

SERIAL INTERFACE

I2C/SM Bus interface

BIOS

AMI Aptio V UEFI Bios

DISPLAY INTERFACE

Dual 24-bit LVDS and DisplayPort or DVI or HDMI

AUDIO

Support for HDA audio codec on carrier board

POWER

+5V +/-5%

OPERATING TEMPERATURE

Standard: 0°C to +60°C

Industrial: -40°C to +85°C

HUMIDITY

10 to 90% (operating)

5 to 95% (storage)

FORM FACTOR

Qseven Specification 2.0, 70mm x 70mm