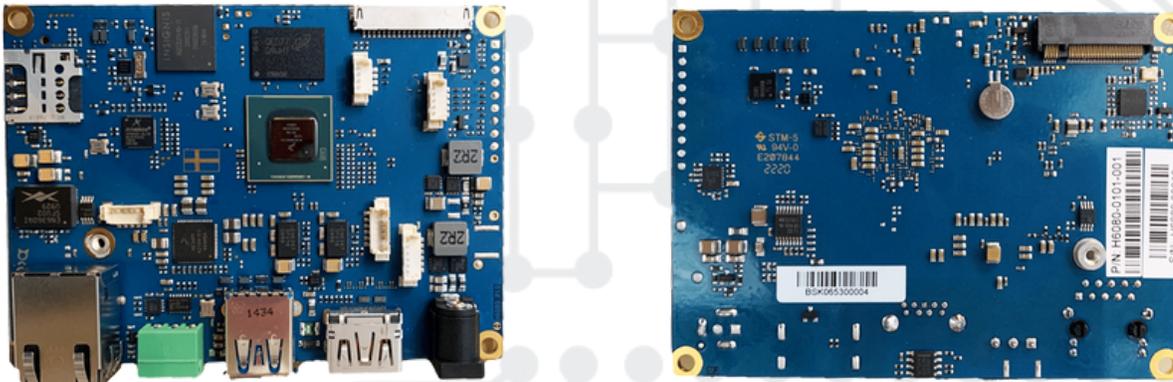


H6080

Pico-ITX Single Board Computer with NXP i.MX8MQ

H6080 is a small form factor Pico-ITX Single Board Computer based on the NXP i.MX8MQ system on chip. It combines high CPU and graphics performance with low power consumption and comes packed with industrial peripheral interfaces. With its wide input voltage, industrial grade temperature range and low power dissipation it is well suited for vehicle, industrial infotainment and communication systems. H6080 also comes with an M.2 expansion with integrated SIM-slot for mounting an LTE modem. It can also support dual independent displays (LVDS and HDMI).



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Features

- Dual or Quad Core NXP i.MX8M So
- 2G/3G GPU and VPU
- Soldered eMMC Flash and LPDDR4 RAM
- USB 3.0, Gigabit Ethernet and CAN 2.0/FD
- LVDS interface
- M.2 Expansion slot with SIM interface
- Industrial temperature range (-40°C to +85°C)
- Pico-ITX form factor

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

SOC

- NXP i.MX8MQ: Quad Core Cortex-A53, 1.3 GHz, 4W TDP, -40°C to +105°C Cortex-M4F coprocessor
- NXP i.MX8MD (option): Dual Core, 1.3 GHz, 4W TDP, -40°C to +105°C

INTEGRATED GRAPHICS

- 2G/3G GPU: Vivante CG7000-Lite OpenGL® ES 3.1, OpenGL® 3.0, Vulkan®, Open CLTM 1.2
- VPU: HD4Kp60/1080p60 h.265, VP9, h.264, MPEG2, MPEG4p2, h.263, DivX

MEMORY

- LPDDR4 3200: 4GB (option: 1GB, 2GB or 3GB)

FLASH STORAGE

- eMMC: 16 GB (option: 8 GB to 128 GB)

RTC

- Onboard Real Time Clock with soldered rechargeable battery

ETHERNET

- One Gigabit Ethernet interface

CAN

- One CAN 2.0B/CAN FD interface

SERIAL PORTS

- Two RS-232 ports . Option: TTL-levels
- One Debug UART (TTL-levels)
- One I2C port (configurable as GPIO)
- One SPI port (configurable as GPIO)

USB:

- One USB 3.0 Host interface

GPIO

- 4 GPIO

DISPLAY INTERFACES

- One HDMI 2.0a
- One single channel LVDS
- Backlight PWM

M.2 EXPANSION

- One M.2 Key B size 3042
- PCIe 2.0 1 lane
- USB 3.0
- Micro SIM slot

POWER

- 9-36V
- Option: Automotive load-dump protection
- Power consumption: TBD

FORM FACTOR

- Pico-ITX 100mm x 72mm

TEMPERATURE

- Operating: -40°C to +85°C
- Storage: -40°C to +85°C

COOLING

- Option: standard heat sink

SOFTWARE SUPPORT

- Yocto 3.0 (Zeus)
- Linux 5.4.3 (Real-Time Linux available on request)

