

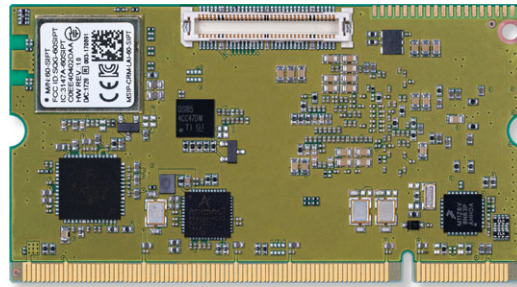
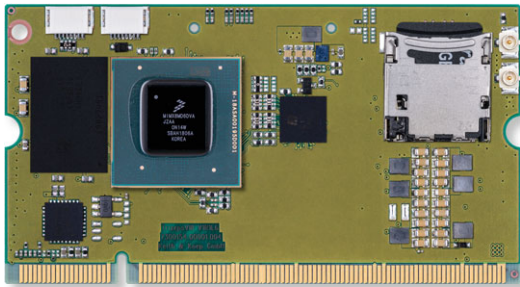
Trizeps VIII

NXP i.MX 8M SODIMM-200 CPU-Module

Keith & Koep

Additional features to i.MX 8M CPU:

- Configurable FPGA, e.g. with MIPI to RGB converter
- Additional Cortex M0+ MCU with e.g. CAN, ADC, SPI, I2C
- Onboard WLAN/Bluetooth module (optional)
- LVDS (Single or Dual) Transceiver
- 1 GBit Ethernet, USB 3.0
- Trizeps SODIMM-200 compatible, compact and scalable



Variable Features

| | |
|-------------------------------------|--|
| Processor | NXP™ i.MX 8M with Am® Quad-/Dual-Core Cortex A53 at up to 1.5 GHz (consumer), 1.3 GHz (industrial), additional Cortex M4 |
| MCU | NXP™ Kinetis V Arm® Cortex-M0+ at up to 75MHz / 8x 16 Bit ADC, CAN, UART, SPI, GPIO etc. |
| RAM Memory | Up to 4 GByte LPDDR4-3200, 32 Bit |
| Flash Storage | Onboard 8 Bit wide eMMC (standard) or onboard 4 Bit wide µSD Card Socket (on request) – not available at the same time |
| FPGA | Programmable FPGA with up to 4300 LUTs to convert parallel display/camera/data-streams to MIPI DSI/CSI (optional) |
| Wireless Communication (on request) | Onboard WLAN-Bluetooth module, WLAN 2.4GHz/5Ghz, 802.11 a/b/g/n/ac 2x2 MU-MIMO, Bluetooth 4.2 / 5.0 |

Onboard Features

| | |
|---------------------|---|
| Display Interfaces | HDMI v2.0a, MIPI display (4ch), Single-, Dual-LVDS or LCD 24 Bit RGB |
| Interfaces | 2x USB3.0 OTG, PCIe, 4Bit wide SDIO, SPDIF In/Out, I2S, Multichannel Serial-Audio-Interface, 4 UARTs, 2x I2C, SPI, QSPI, GPIOs, PWM |
| Ethernet | Onboard 10/100MBit/1GBit RGMII PHY and SIOP interface |
| Extension Connector | Additional FX11 60pol. high-speed board to board connector |
| Camera Interfaces | 8bit parallel, MIPI (4ch and additional 2ch) |
| Audio Codec | Stereo Headphone output, Mono Speaker output, Stereo Line-In, Microphone input |
| Power | High-Eff. PMIC with single supply controlled by I2C |
| Pin compatible | Pin compatible to Trizeps SODIMM-200 CPU modules |

General Details

| | |
|------------------------|---|
| System Software | Linux Kernel 4.14, Android 9, Windows 10 IoT Core (coming soon) |
| Voltage Supply | +3V3 DC |
| Operating Temperature | -25°C to +85°C (industrial) |
| Board Dimensions | 67.6 x 36.7 x 6.4 mm incl. µSD Socket (W x H x D) |
| Environmental Standard | RoHS, REACH, WEEE |
| Availability | 10 years form, fit, function* |



www.keith-koep.com

Keith & Koep GmbH
Uellendahler Str. 199
42109 Wuppertal
Tel +49 (202) 25253 0
Fax +49 (202) 25253 33

*beginning product life circle Rev.1904
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