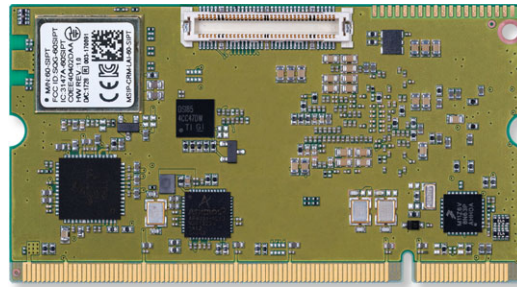
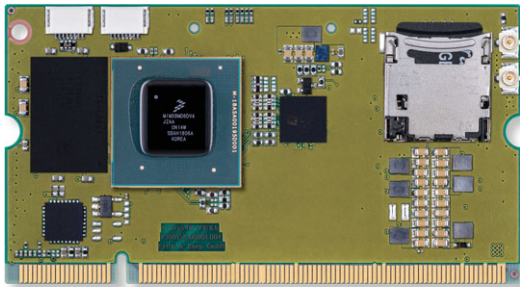


# Trizeps VIII

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

- i.MX 8M Arm Cortex A53 CPU up to 1.5 GHz, with integrated Cortex M4
- Configurable FPGA (up to 4300 LUTs), e.g. with MIPI to RGB converter
- NXP Kinetis V Arm Cortex M0+ MCU provides additional interfaces like CAN, ADC, SPI, I2C
- LPDDR4-3200 RAM, up to 8 GByte, 32 Bit
- 1 GBit Ethernet, USB 3.0
- Onboard WiFi/Bluetooth module
- Single or Dual LVDS Transceiver
- Additional Hi-Fi Audio Codec
- Supports Displays up to 4k

Keith & Koep



### Variable Features

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

### Onboard Features

Display Interfaces	HDMI v2.0a / MIPI display (4 channel) / Single-, Dual-LVDS or LCD 24 Bit RGB supports displays up to 4k resolution
Interfaces	2x USB3.0 OTG, 2x PCIe (1x for SODIMM socket and 1x for WiFi-Bluetooth module), 4 Bit wide SDIO, SPDIF In/Out, I2S, Multichannel Serial-Audio, 4x UART, 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	8 Bit parallel, 2x MIPI (4 channel and 2 channel)
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
Voltage Supply	+3V3 DC
Operating Temperature	-40 bis 85°C (industrial) / -25 bis 85°C (Extended Consumer) / 0 bis 70°C (Consumer)
Board Dimensions	67.6 x 36.7 x 6.4 mm (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.2004  
Technical modifications reserved, errors excepted