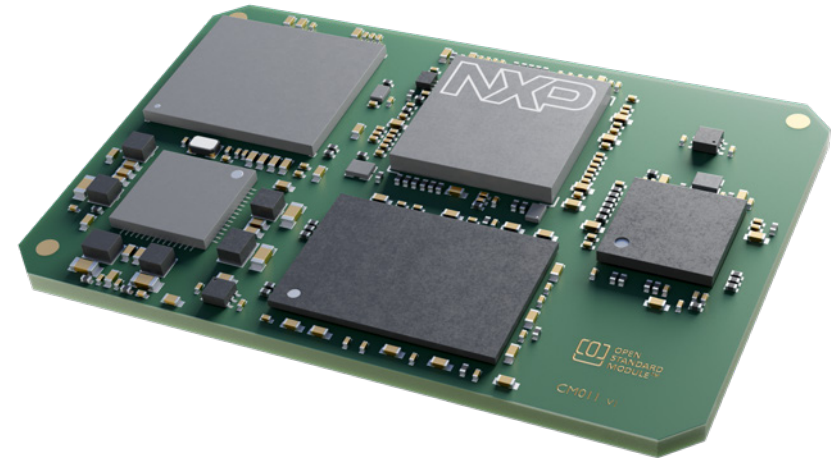


Embedded Module with NXP i.MX93

Open Standard Module™ - iesy i.MX93 OSM-MF

Technical Concept

- ▶ Processor: i.MX9352 Dual-Core A55 with NPU + Cortex-M33 MCU
- ▶ CPU Clock-Rate: 1.7 GHz (A55) / 250 MHz (M33)
- ▶ RAM: 1 GByte LPDDR4 (Inline ECC)
- ▶ Flash-Memory: 8 GByte e-MMC 5.1
- ▶ Dimension: 30 mm x 45 mm
- ▶ Footprint: OSM Size-M
Land Grid Array (LGA) with 476 contacts
- ▶ Supply: Single Supply 5 VDC
- ▶ Temperature range:
 - > Operating: -25 °C to +85 °C
 - > Storage: -40 °C to +85 °C
- ▶ Features & Interfaces
 - > 2x Ethernet 1 Gbit (with TSN)
 - > 2x USB 2.0 Client/Host/OTG
 - > 1x MIPI CSI (2 Lanes, incl. I2C)
 - > 1x MIPI-DSI (4 lanes) – Up to 1080p/60 FPS
 - > 1x SD-Card + 1x SDIO (4 bit)
 - > 15x GPIO
 - > 2x CAN
 - > 1x I2S
 - > 2x I2C
 - > 2x UART + 1x Debug-UART
 - > 2x ADC-Input
 - > 4x PWM, 1x JTAG, 1x SPI (2x chip select)



About OSM™

The Open Standard Modules™ specification was adopted by the SGeT e.V. in 2019. The new standard was developed to meet future requirements in terms of **flexibility**, **scalability**, but also **costs**. OSM™ solder-down modules can be **individually adapted** to the respective customer requirements. For this purpose, the individual modules can be made **available to the SMT process** by means of tray & reel packaging and processed automatically. The OSM™ series includes in total four different form factors.



iesy.com/osm