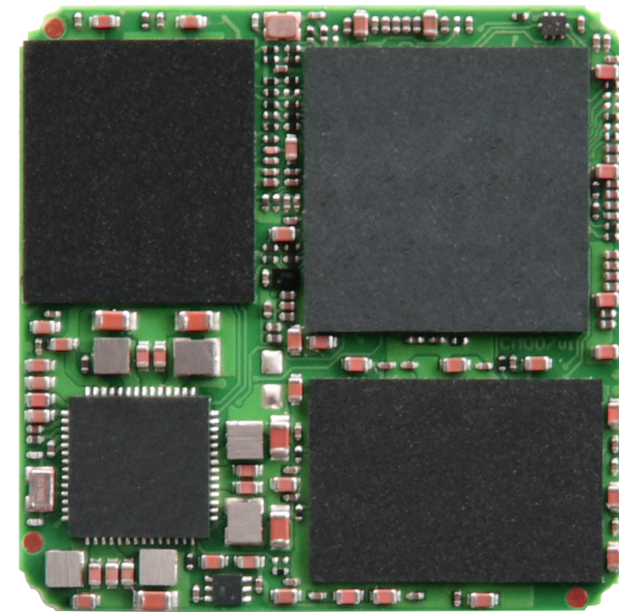


# Embedded Module with i.MX8M Nano

Open Standard Module™ - iesy i.MX8M Nano OSM-SF

## Technical Concept

- ▶ Processor: i.MX8M Mini Cortex-A53 Solo Core
- ▶ CPU Clock-Rate: 1.5 GHz
- ▶ RAM: 512 MByte LPDDR4
- ▶ Flash-Memory: 8 GByte e-MMC 5.1
- ▶ Dimension: 30 mm x 30 mm
- ▶ Footprint: OSM Size-S  
Land Grid Array (LGA) with 332 contacts
- ▶ Supply: Single Supply 5VDC
- ▶ Temperature range:
  - > Operating: -40 °C to +85 °C / 0 °C bis +85 °C
  - > Storage: -40 °C to +85 °C
- ▶ Power consumption: < 5W (typ.)
- ▶ Features & Interfaces
  - > 1 x LAN 10/100/1000 (RGMII)
  - > 1x PCIe x1
  - > 1x USB 2.0 Host
  - > 1x USB 2.0 OTG
  - > 1x MIPI DSI (4 Lanes)
  - > 1x MIPI CSI (4 Lanes)
  - > 1x SD-Card, 1x SDIO/MMC (x8)
  - > 1x QSPI, 1x SPI, 4x UART
  - > 2x I2C, 1x I2S (2x TX/RX)
  - > 24x GPIO, 3x PWM
  - > 1x JTAG



## 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](https://iesy.com/osm)