

Embedded Module

Open Standard Module™ - iesy EHL OSM-LE

Technical Concept

- ▶ Platform: Intel® Elkhart Lake x6413E
- ▶ RAM: 4 GByte
- ▶ Flash-Memory: 64 GB eMMC (only for eMCP version)
- ▶ Dimension: 45 mm x 45 mm
- ▶ Footprint: OSM Size-L
Land Grid Array (LGA) with 662 contacts
- ▶ Supply: 5V via LGA contacts
- ▶ Software: Windows / Yocto Linux
- ▶ Temperature range:
 - > Operating: 0 °C to +70 °C
 - > Storage: -40 °C to +85 °C
- ▶ Features & Interfaces
 - > 3x Ethernet 100M/1G (2x RGMII, 1x SGMII)
 - > 2x USB 2.0 Host
 - > 2x USB 3.0 Host with USB 2.0 support
 - > 4x UART (2x with RTS/CTS)
 - > 13x GPIO, 4x PWM
 - > 3x SPI (1x connected to BIOS & TPM)
 - > 2x I2C, 2x I2S
 - > 2x SDIO (1x 4 bit, 1x 8bit)
 - > 1x CAN (CAN-FD), 1x JTAG
 - > 2x PCIe x1
 - > 4x PCIe x1 / 2x PCIe x2 / 1x PCIe x4 / 1x PCIe x2 + 2x PCIe x1
 - > 2x PCIe x1 / 1x PCIe x2
 - > 1x eDP (4 lanes), 1x DP/HDMI (2 lanes)



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