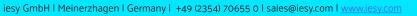
Embedded Module

Open Standard Module[™] - iesy ESP32 OSM-OF

Technical Concept

	Microcontroller:	ESP32 Xtensa DualCore x32 LX6
►	CPU Clock Rate:	240 MHz
►	RAM:	512 KB
►	Flash-Memory:	32 Mbit SPI-Flash
►	Dimension:	15 mm x 30 mm
•	Footprint:	OSM Size-0 Land Grid Array (LGA) with 188 contacts
►	Supply:	3,3 V, +/- 5 % via LGA contacts
►	Power consumption:	<1 W (typ.)
	Temperature range: > Operating: > Storage:	-40 °C to +80 °C -40 °C to +85 °C

- Software: Espressif IDE (FreeRTOS based) via PlatformIO
- ► Features & Interfaces
 - > Wi-Fi 802.11 b/g/n + Bluetooth/BLE
 - > 1 × LAN 10/100 (RMII), MAC compatible with IEEE 802.3
 - > 1x OSM Antenna-Contact / U.FL-Connector (optionally)
 - > 1x SDIO-Card
 - > 1x l2C
 - > 2x ADC
 - > 4x GPIO, 2x UART, 1x SPI





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.

