



# Datasheet

## EMU15 system-on-module

**Part No:**  
EMU15

### Description:

Multi Radio system-on-module

### Ordering Information:

**EMU15L – EMU15 SoM [LTE CAT 1 Global module].**

**EMU15B – EMU15 SoM [LTE CAT M Global module].**

### Features:

- Compact size
- Cellular 4G LTE Cat1.bis/2G (Optional CatM/NB), Wifi and BLE5
- Ideal for product retrofits and upgrades to cellular communications
- Onboard SMD Wideband Antenna options
- Optional Medical grade ISO62304 firmware stack for Medical Devices

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## Introduction

The TxWireless EDGE Multi EMU15 is a compact multi-radio SOM with various options of cellular, Wi-Fi, and Bluetooth low energy in a small form factor board. It features a Dual Core 32bit processor, optimized firmware/OS RTOS, validated applications libraries (Real Time Performance) and comes with an advanced on-board analytics engine.

The TxWireless EDGE Multi EMU15 offers the ultimate degree of flexibility and scalability while saving costs and time-to-market for OEMs and enterprises. Developed by industry experts and with proven commercial solutions across healthcare, industrial and transportation segments. The IoT design and manufacturing process can become as simple as activating a SIM card. The solution is also supported by TxWireless EDGE firmware stack (below) and Insights - a cloud management platform - which provides a scalable end-to-end solution for easy control and management of connected devices.

## Key Benefits



**Integrate Into Your Design**  
Customizable OEM boards.



**Accelerate Your Project**  
Build your IoT prototype in minutes for rapid prototyping.



**Multi Connectivity**  
Multi-sensor and wireless connectivity.



**Flexibility**  
Highly flexible design (HW/SW)



**Ready Out Of The Box**  
Data ready out of the box.

## Specifications

<b>Model Name</b>	EMU15
<b>Processor</b>	RISC-V CPU
<b>Firmware/OS</b>	RTOS Applications Libraries (Real Time Performance)

Security	Analog Devices Onboard MAXQ1080 or MAXQ1065
Cellular	4G LTE Cat1, Cat1.bis, CatM, NB-IoT and 2G
Antennas	All SMD antennas possible (Optional uFL for external) Flex
Bluetooth	BLE 5.3
Wi-Fi	Wi-Fi (802.11 b/g/n)
Dimensions	45mm * 80mm (Subject to host device integration)
External Interface	I2C, SPI, USB, JTAG, GPIO
Operating Temperature	-20°C (-4°F) to +60°C (140°F)
Power	5V, Current 2A- 3A

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