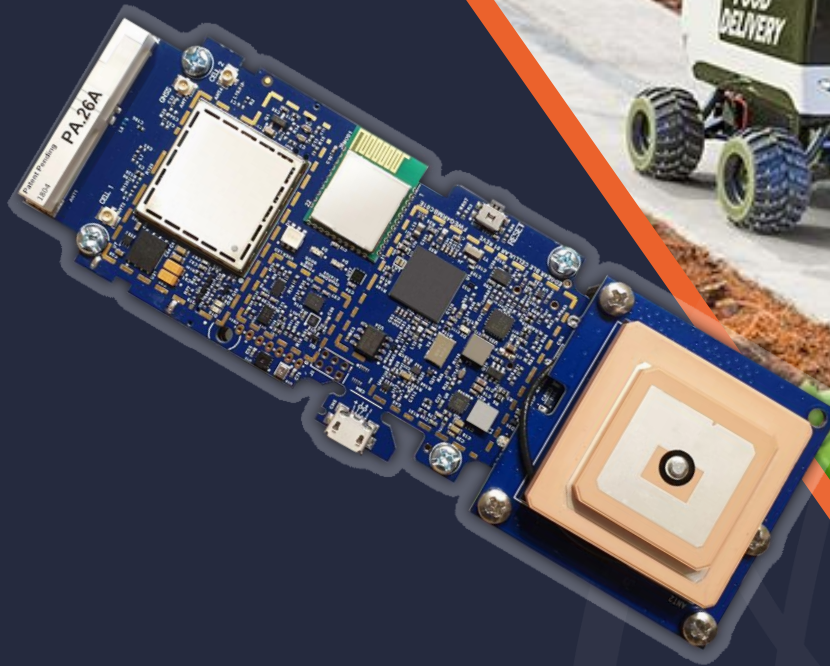




TxWIRELESS™



Datasheet

ES15 system-on-module

Part No:
ES15

Description:

Instant connectivity multi-sensor system-on-module with high precision GNSS RTK

Ordering Information:

ES15L – ES15 SoM [LTE CAT 1 Global module].

ES15B – ES15 SoM [LTE CAT M Global module].

Features:

- High precision GNSS with RTK capabilities allows for gathering of high precision positioning data
- Ultra-low power consumption.
- Cost-effective end-to-end system-on-module with cellular 4G, GNSS, Wi-Fi, Bluetooth, and on-board movement sensors.
- Plug-and-play with fast-time-to value for a variety of Industrial IoT applications.
- Device, data, SIM, and sensor management via EDGE Insights platform.
- Secure provisioning and certificate management.
- Over The Air (OTA) firmware updates and device diagnostics.
- Deployment lifecycle control.

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Introduction

High-precision GNSS and cellular connectivity device for quick market entry with high-accuracy location information. Build cloud-powered connectivity applications quicker with the TxWireless pre-certified ES10 system-on-module.

The industry’s most comprehensive connectivity Starter kit including cellular, Bluetooth, on-board sensors, multiband GNSS and RTK, and cloud-based management platform. The ES15 is preconfigured with an active cellular data plan.

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

Model Name	ES15
RAM	384 KB
Flash	2048 KB
Firmware/OS	RTOS Applications Libraries (Real Time Performance)

Security	Cloud Mutual authentication, Hardware root for trust, secure key storage
Cellular	Various options available (LTE EMEA with 2G fallback, Global NB-IoT and CatM, Global NB-IoT and CatM)
GNSS	GPS/GLONASS/Galileo/BeiDou (Optional RTK)
Bluetooth	BLE 4.2
On-board sensors	Temperature, Humidity, Light, Atmospheric pressure, Accelerometer, Gyroscope, Magnetometer
Expansion connector	RS485, CAN, UART, GPIO, PWM, ADC, I2C, SPI
Operating Temperature	-20°C (-4°F) to +60°C (140°F)
Power	3.2V – 4.5V, Current 2A- 3A
Battery	1200 mAh rechargeable lithium battery

Regional Support and International Engineering

Let's make something great together

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Join them by using our services and grow your business.

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