S-2CONNECT™

Pro Tracking and Monitoring Kit
LTE Cat M1 / NB-IoT

S-2CONNECT™ Pro Tracking and Monitoring Kit for rapid IoT deployment. Connect, track, sense, and monitor your applications including:

- Asset Tracking
- Cold Chain
- Smart Home
- Industrial IoT

Kit Contents

- S-2CONNECT Hub and Sense devices
- Power Supply with interchangeable blades for global use
- 3 months cellular subscription and 25MB data, per month
- Cloud based services and portal

S-2CONNECT Hub

Smart hub using the latest GNSS and LTE technology. Integrated sensors.

S-2CONNECT Sense

Bluetooth device/tag that measures temperature, humidity, light and acceleration.

Connectivity

Our connectivity services include 4G/2G cellular connectivity for global coverage.

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Cloud Services

Providing the infrastructure including database, MQTT broker, microservices and firmware hosting.

Portal

Portal and user interface to manage device configuration, provisioning and monitoring.

TT Electronics

S-2CONNECT™ Hub

- Global Coverage
- Long battery life
- LTE Cat M / NB-IoT
- 2G Fallback
- GNSS
- Bluetooth Low Energy
- Accelerometer
- Integrated sensors

Description:

S-2CONNECT Hub is the ultimate smart hub using the latest GNSS and LTE technology. The device provides real-time positioning data using GNSS and transmit the data over LTE Cat M1 or NB-IoT with 2G-fallback for global coverage. The device can be used as an asset tracker, smart home gateway and/or industrial smart hub.

Communication	GNSS Cellular Modem Bluetooth GNSS Antenna Cellular Antenna BLE Antenna	Quectel L76-L Quectel BG96 BLE v4.2, compliant v5 Internal Internal Internal
Frequency Bands	LTE 2G GNSS BLE	1, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 25, 28, 39 2, 3, 5, 8 GPS/GLONASS/QZSS 2.4 GHz
Electrical Properties	Battery Processor Memory/storage Battery Life	3.7V 6500mAh Li-Ion ARM 32-Bit STM32L4 16MB QSPI Flash Up to 12 months
Interface/Connectors	Vitrual COM port	USB Micro
Sensors Accuracy	Temperature Humidity Accelerometer	-30°C to +85°C (+/-0.3°C) 0 - 100% Rh (+/-2% Rh) +/-2g (+/-2mg/LSB)
Mechanical Properties	Enclosure Outer Dimensions Weight Operating Temperature LED's	IP65 155mm x 65mm x 20mm 197g -30°C to +60°C (battery charging 0°C to +45°C) 4 multi-colour LEDs
Software Properties	Firmware protocols	Zephyr RTOS, Customized data packets to server

S-2CONNECT™ Sense

- Bluetooth low energy
- Long battery life
- V4.2, compliant BLE5
- Temperature
- Humidity
- Accelerometer
- NFC-A

Description:

S-2CONNECT Sense is a Bluetooth Low Energy (BLE) tag designed to record temperature, humidity and impact data. It uses BLE to transfer the information to the nearest S-2CONNECT Hub. A long battery life time and ruggedized enclosure (IP65) makes it suitable for asset monitoring.

Description	BLE	BLE v4.2, compliant v5
Frequency Bands	BLE	2.4 GHz
Electrical Properties	Current Consumption Battery Processor Memory/flash Battery Life	35uA beaconing every sec CR2450 ARM Cortex M4 256kB / 8MB >1 year (at 25°C, 5min reporting cycle)
Sensors Accuracy	Temperature Humidity Accelerometer Light	-20°C to +85°C (+/-0.3°C) 0 - 100% Rh (+/-2% Rh) +/-2g (+/-2mg/LSB) Dark/Light sensing*
Mechanical Properties	Enclosure IP Enclosure Colour Outer Dimensions Weight Operating Temperature LED	IP65 Transparent or White Option 33.0mm x 64.5mm x 9.5mm 17g (without battery) -20°C to +85°C Alarm
Software Properties	Firmware protocols	Zephyr RTOS

* Transparent enclosure only

ISS.1 03/02/2021