

DATASHEET

S-2CONNECT®

Pro Tracking and Monitoring Kit

SPEED TO CONNECT



LTE Cat M1 / NB-IoT

S-2CONNECT Pro Tracking and Monitoring Kit for rapid IoT deployment. Ideal for proof of concept applications that can be scaled.

The kit includes a smart hub and a sensor tag that measures temperature, humidity, light and acceleration. Additional sensor tags can be added to the kit and connected to the hub.

Kit Contents

- S-2CONNECT Hub
- S-2CONNECT Sense device
- Power Supply with interchangeable blades for global use
- 3 months cellular subscription and 25MB data, per month included (Subscription can be extended)
- Access to cloud-based services and S-2CONNECT portal

Applications



Cold Chain



Asset Tracking



Healthcare



Smart Home



Global Coverage



S-2CONNECT Portal

S-2CONNECT Sense

4 in 1 Sensor Solution:

- ✓ Temperature, Humidity and Accelerometer
- ✓ Bluetooth low energy BLE
- ✓ V4.2, compliant BLE5

S-2CONNECT Hub

IoT Gateway:

- ✓ LTE Cat M1 / NB-IoT with 2G fall-back
- ✓ IP65
- ✓ On-board sensors

S-2CONNECT[®] Sense

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TECHNICAL SPECIFICATIONS

Communication	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 version only

S-2CONNECT[®] Hub

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TECHNICAL SPECIFICATIONS

Communication	GNSS Cellular Modem Bluetooth GNSS Antenna Cellular Antenna BLE Antenna	Quectel L76-L Quectel B096 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	Virtual 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