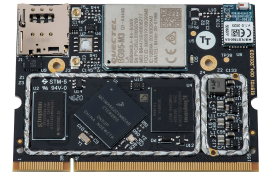


DATASHEET

S-2CONNECT[®] Creo SOM

SPEED TO CONNECT



Advanced, Highly Integrated System-on-Module (SOM) Board for Connected IoT Applications

LTE Cat M1 / NB-IoT

S-2CONNECT Creo SOM is a robust and cost-effective embedded system-on-module platform for building industrial IoT products. Featuring a powerful processor and cellular connectivity for global coverage, it delivers the perfect communication bridge providing real-time sensing and positioning data. S-2CONNECT Creo SOM enables fast IoT-development to connect, track, sense and monitor devices.

- ✔ **Ready to use advanced SOM**
- ✔ **Access to latest technology**
- ✔ **Reduce R&D Risk**
- ✔ **Accelerate development and time to market**

The S-2CONNECT Creo SOM is designed for engineers, programmers, and developers who are looking to:

- Develop, test and launch a system-on-module board with cellular solutions including LTE Cat M1 / NB-IoT.
- Implement IoT applications using a pre-certified SOM solution.
- Fastrack development time.



Global Coverage



S-2CONNECT Portal

Key Benefits

- Future-proof Cat M1/NB2 + GSM/EGPRS enables a global cellular coverage, allowing the device to relay data through diverse interfaces available on the SOM. The radio module is also equipped with a GNSS receiver for positioning.
- 2G fall-back
- Pre-certified for EU, UK, US and Canada
- Highly flexible SOM with advanced features to drive powerful applications.
- ARM Cortex-A7 processor running embedded Linux OS supports a wide range of interfaces for connecting peripheral such as Bluetooth, GNSS and serial interfaces.
- 256MB RAM
- Flash memory 4GB for direct system booting and user data storage.
- Proven edge connector - 200-pin SODIMM.
- Scalable platform.
- TPM (Trusted Platform Module) integrated security crypto processor for enhanced security.
- Soldered eSIM + 3FF (micro SIM-card holder). Optional cellular connectivity subscription plans available.
- Integrated Sensors - Accelerometer, Gyroscope, Magnetometer.
- S-2CONNECT Creo SOM software development kit available for developers.

Applications



Industrial automation



Transportation



Building automation



Healthcare



Energy



Instrumentation

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TECHNICAL SPECIFICATIONS

Communication	Cellular Modem Bluetooth GNSS	Quectel BG95-M3 BLE 5.0 Positioning
Frequency Bands	LTE 2G GNSS Bluetooth	1, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 25, 26, 27, 28, 66, 85 2, 3, 5, 8 GPS/GLONASS/Galileo/QZSS 2.4 GHz
Electrical Properties	Processor Memory RAM eSIM Sensors Input voltage	NXP i.MX6UL Cortex-A7 eMMC 4GB Flash DDR3L 256MB MFF2 Accelerometer, Gyroscope, Magnetometer 5V and 3.3V DC
Interface/Connectors	Connector Antenna SIM-card	USB Micro SO-DIMM edge-connector U.FL connectors Soldered eSIM + 3FF (micro SIM-card holder)
Sensors Accuracy	Temperature Humidity Accelerometer	-30°C to +85°C (+/-0.3°C) 0 -100% Rh (+/-2% Rh) +/-2g (+/-2mg/LSB)
Mechanical Properties	Outer Dimensions Weight Operating Temperature	67.6 mm x 50.0 mm x 5.0 mm 18g -30°C to +60°C
Software Properties	Firmware protocols SDK	Linux Available to download via the website