TT Electronics

S-2CONNECT®
Creo SOM Development Kit
Quick start guide

Contents

Introduction

Thank you for choosing the S-2CONNECT Creo SOM Development Kit by TT Electronics. Please read this quick start guide thoroughly before bringing your S-2CONNECT Creo SOM Development Kit into service. To access the hardware manual in full visit: www.s-2connect.com

What is included in the kit?

Your S-2CONNECT Creo SOM Development Kit includes:
- 1 S-2CONNECT Creo SOM
- 1 S-2CONNECT Creo Evaluation Board (EVB)
- 1 Power Supply with interchangeable plugs
- 1 Quick Start Guide
- 1 USB cable
- 1 Ethernet cable
- 1 LTE antenna
- 1 GNSS antenna
- 1 SD card
- 6 Jumpers for 2.54 mm headers

Your S-2CONNECT Creo Development Kit includes also a 3 month SIM subscription.

Creo SOM board

S-2CONNECT Creo SOM is a System On Module board with a powerful processor and cellular connectivity for global coverage. It provides the perfect building block for developing a powerful IoT product. Download the full hardware manual at www.s-2connect.com for more information.

Evaluation board

S-2CONNECT Creo Evaluation Board (EVB) is a tool intended to be used by developers of application code for S-2CONNECT Creo SOM. Download the full hardware manual at www.s-2connect.com for more information.

Connectivity

Creo SOM can communicate with any server system via cellular network. It uses LTE/NB-IoT/ CatM, with 2G-fallback for global coverage. A mobile operator subscription is required. The Creo SOM is provided with an embedded SIM with 3 months connectivity subscription included, which can be extended if required. Please register your device and thereby you SIM subscription to ensure proper operation.
https://registration.s-2connect.com
The Creo SOM board features also a SIM card holder which allows to instead use the developers preferred SIM card.

Software development resource

A software development kit (SDK) is available for developers using the S-2CONNECT Creo SOM board. The SDK can be accessed here: www.s-2connect.com/creo-sdk

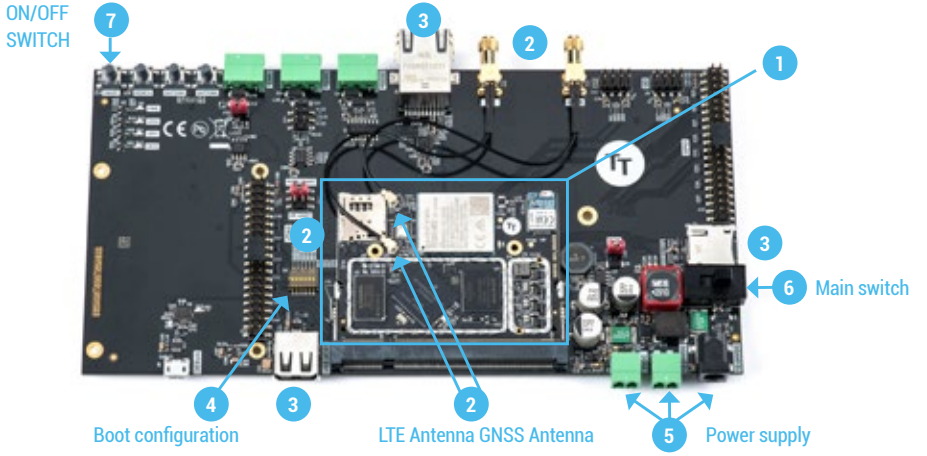
A demo application can be found inside the SDK, which will enable you to get started.

Connecting your SOM board to the EVB

Before you can begin using your S-2CONNECT Creo SOM development kit you should take the following steps:

1. Place your S-2CONNECT Creo SOM board on top of your S-2CONNECT Creo EVB and carefully slide it in into the 200 pin SO-DIMM connector, as shown in the image below.

2. Next connect your chosen antenna. GNSS and LTE antennas can either be connected directly to the u.FL connectors on the SOM board, or via the u.FL – SMA adapters mounted on the EVB. The Bluetooth antenna is internal only and requires no external connection.



3. Based on intended usage, connect USB and/or Ethernet cable and insert SD card.
4. Set the BOOT configuration switches to desired position.
5. Connect the power supply to the EVB.
6. Set the main switch to ON.
7. Press the ON/OFF button to initiate the SOM operation.

Support

For support with the S-2CONNECT system and devices contact:
services.connectivity@ttelectronics.com

Radio frequencies

Radio technology	Frequency band	Maximum power
LTE	1,2,3,4,5,8,12,13,18,19,20,25,26,27, 28,66,71,85	21 dBm
2G	2,3,5,8	33 dBm
GNSS	GPS, GLONASS, QZSS	
Bluetooth	2.4 GHz BLE	

Approvals

S-2CONNECT Creo SOM must be used in compliance with applicable and international regulations that restrict utilisation of radio communication modules. Refer to the full S-2CONNECT Creo SOM hardware manual available on the website for more information.

Declaration of Conformity

TT Electronics hereby declares that S-2CONNECT Creo SOM is in compliance with the essential requirements of EU directive RED2014/53/EU.

TT Electronics hereby declares that the S-2CONNECT Creo SOM is in compliance with applicable UK regulations.

FCC and IC Compliance

S-2CONNECT Creo SOM has been tested to fulfil the FCC and IC requirements. Test reports are available on request.

Refer to the S-2CONNECT Creo SOM hardware manual for further information regarding compliance.

www.s-2connect.com