

ST4SIM-300M expansion board for STMod+ connector compatible evaluation boards



Features

- ST4SIM-300M expansion for evaluation boards hosting the STMod+ connector
- ST4SIM-300M compliant to the GSMA SGP.32 eSIM for IoT
- Embedded Quectel BG96MA-128-SGN FCC and IC certified LTE module (FCC ID: XMR201707BG96 and IC: 10224A-201709BG96)
- Modem reset red LED and modem signaling green LED
- Switchable SIM interface, eSIM, and Micro-SIM
- Pulse SMA antenna for the following frequency ranges: 824/900/1800/1900/2100 MHz
- Modem firmware can be easily upgraded through the dedicated micro-B USB connector

Description

The **STEVAL-ST4SIMV1** expansion board adds cellular connectivity to evaluation boards hosting the STMod+ expansion connector.

It embeds a cellular modem compatible with LTE Cat M1 & Cat NB1 & EGPRS networks and with an initial connectivity provided by a trusted telecom operator partner..

The **ST4SIM-300M** is ST's eSIM compliant with the GSMA SGP.32 specification. The new standard enables the remote switching of telecom operators.

The expansion board can be used only with the furnished antenna and is compatible with all STMicroelectronics Discovery kits featuring an STMod+ connector, such as the **B-U585I-IOT02A**.

It is also compatible with any STMod+ compatible evaluation board.

The package, combined with any compatible evaluation board, represents an ideal development platform for cellular and cloud technology-based solutions.

Product summary	
ST4SIM-300M expansion board for STMod+ connector compatible evaluation boards	STEVAL-ST4SIMV1
Cellular software expansion for STM32Cube	X-CUBE-CELLULAR
GSMA eSIM for IoT system-on-chip solution for IoT environment	ST4SIM-300M
Applications	Metering/Asset tracking/Medical and healthcare

1 Schematic diagrams

Figure 1. STEVAL-ST4SIMV1 circuit schematic (1 of 5)

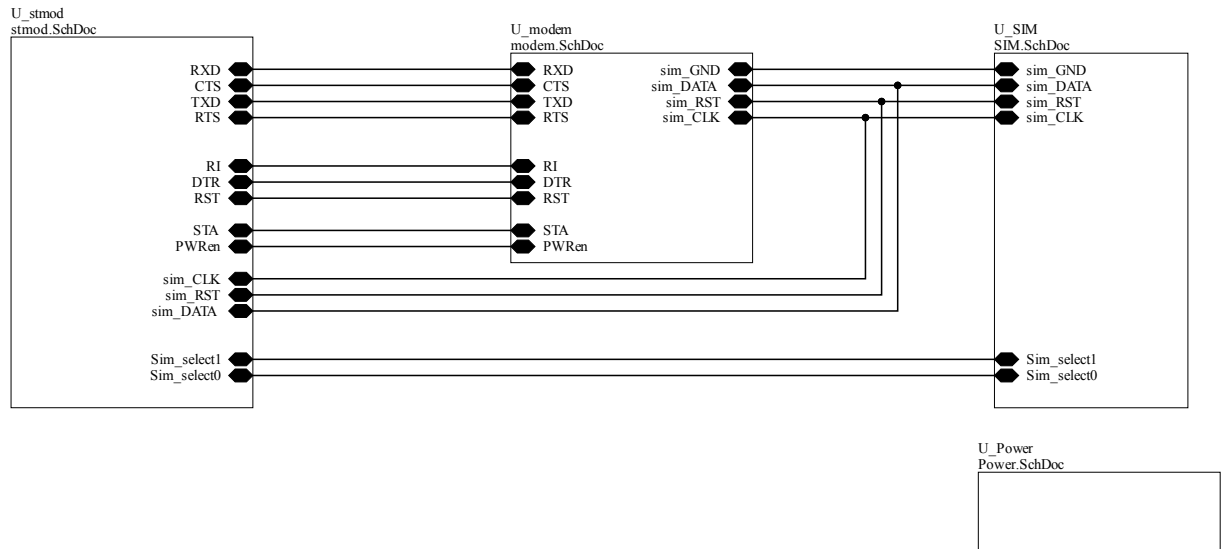
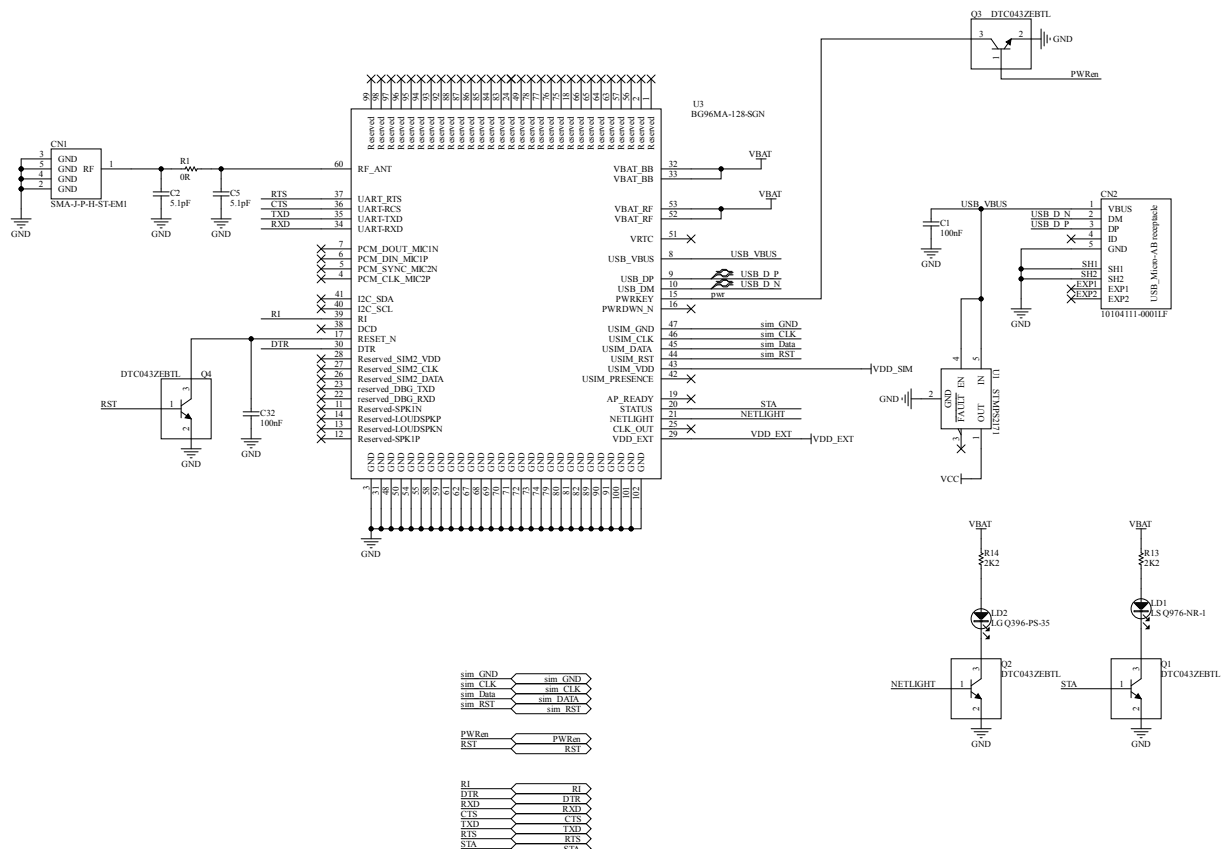
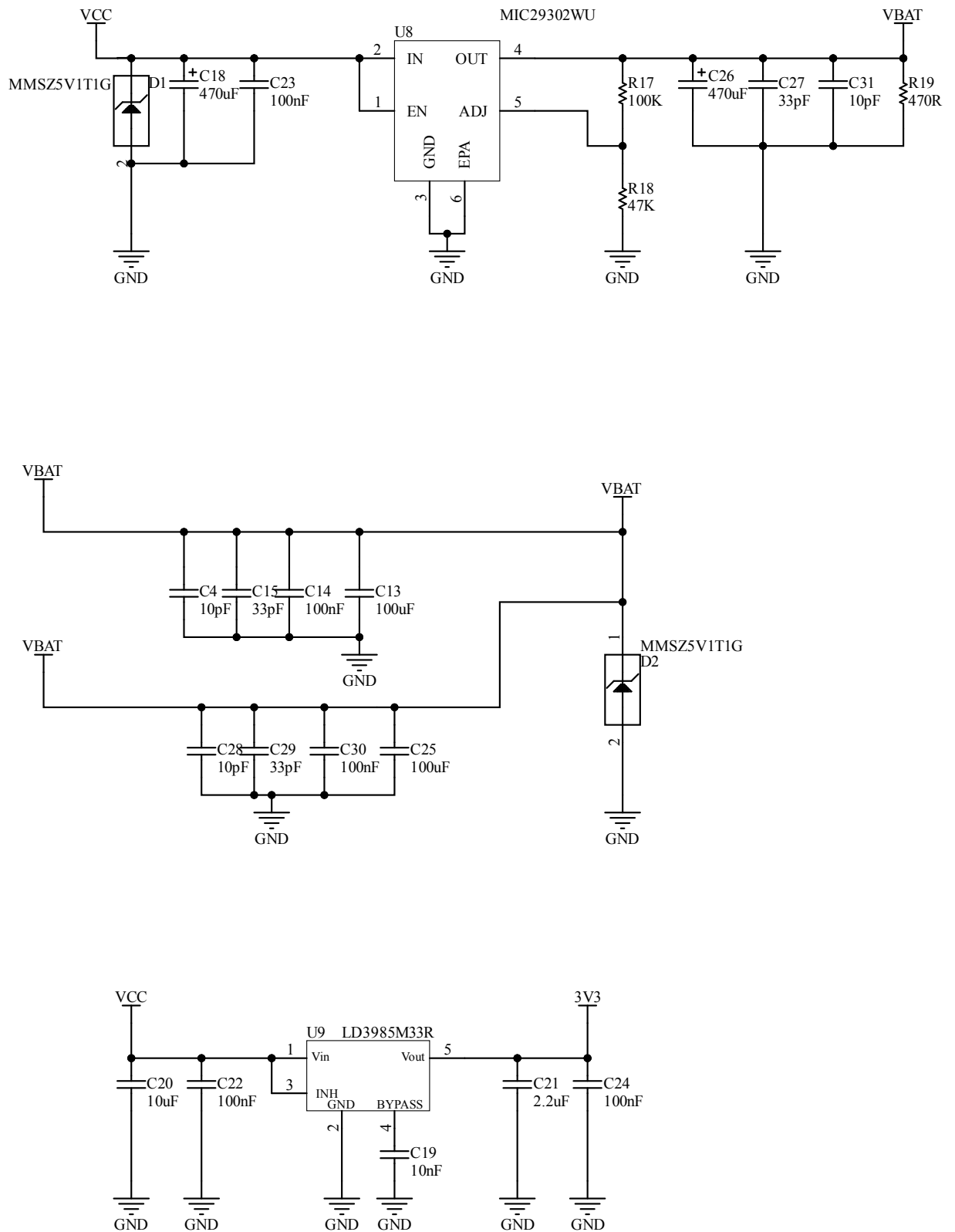


Figure 2. STEVAL-ST4SIMV1 circuit schematic (2 of 5)



[illegible]

Figure 5. STEVAL-ST4SIMV1 circuit schematic (5 of 5)



2 STEVAL-ST4SIMV1 versions

Table 1. STEVAL-ST4SIMV1 versions

PCB version	Schematic diagrams	Bill of materials
STEVAL\$ST4SIMV1A ⁽¹⁾	STEVAL\$ST4SIMV1A schematic diagrams	STEVAL\$ST4SIMV1A bill of materials

1. This code identifies the STEVAL-ST4SIMV1 evaluation board first version. It is printed on the board PCB.

Revision history

Table 2. Document revision history

Date	Revision	Changes
03-Jul-2025	1	Initial release.
09-Apr-2026	2	Updated Cover image.

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