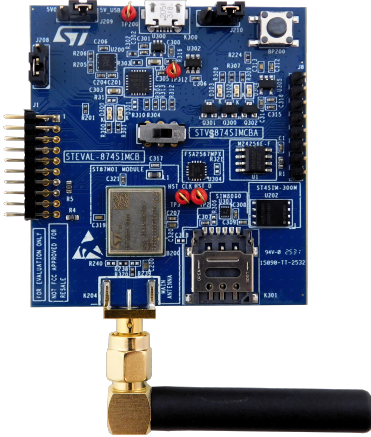


ST4SIM-300 and ST87M01 NB-IoT based evaluation boards



The picture shown is for illustration purpose only.
Actual product may vary depending on buyer's selection and availability.

Features

- ST4SIM-300M expansion for evaluation boards hosting the STMod+ connector
- ST4SIM-300M compliant to the GSMA SGP.32 eSIM for IoT
- Embedded ST87M01 module:
 - Ultracompact, low-power, certified LTE Cat NB2 Release15 NB-IoT module
 - Worldwide regional band capability
 - GCF certified bands: B1, B3, B5, B8, B20, B28
 - RED and RED-DA certified
 - Supports SGP.32 remote SIM provisioning
- Switchable SIM interface: eSIM and microsim
- Modem firmware upgradeable via dedicated micro-B USB connector
- UART interface supporting AT command set
- Pulse SMA antenna supporting frequency ranges: 850, 900 MHz; 1.8, 1.9, 2.1 GHz

Description

The [STEVAL-874SIMCB](#) expansion board adds NB-IoT connectivity to evaluation boards featuring the STMod+ expansion connector. It integrates the [ST87M01](#) NB-IoT module, which supports LTE category NB2, release 15.

The [ST4SIM-300M](#) is ST's eSIM compliant with the GSMA SGP.32 specification, enabling remote switching of telecom operators.

This expansion board must be used with the supplied antenna and is compatible with all ST Discovery kits featuring an STMod+ connector, such as the [B-U585I-IOT02A](#). It is also compatible with any evaluation board supporting the STMod+ standard.

Together with any compatible evaluation board, the [STEVAL-874SIMCB](#) provides an ideal development platform for remote SIM provisioning solutions over NBIOT technology.

Product summary	
ST4SIM-300 and ST87M01 NB-IoT based evaluation boards	STEVAL-874SIMCB
Software package for ST4SIM-300 and ST87M01 NB-IoT based evaluation boards	STSW-LTENB4SIM
GSMA eSIM for IoT system-on-chip solution for IoT environment	ST4SI3M004600HFW
Ultra-compact, low-power narrowband (NB-IoT) industrial module series with GNSS capability	ST87M01-1001
Discovery kit for IoT node with STM32U5 series	B-U585I-IOT02A
Applications	Metering IoT for smart industry

1

Schematic diagrams

Notice: These schematics are for illustration purpose only. Actual product may vary depending on buyer's selection and availability.

Figure 1. STEVAL-874SIMCB circuit schematic (1 of 5)

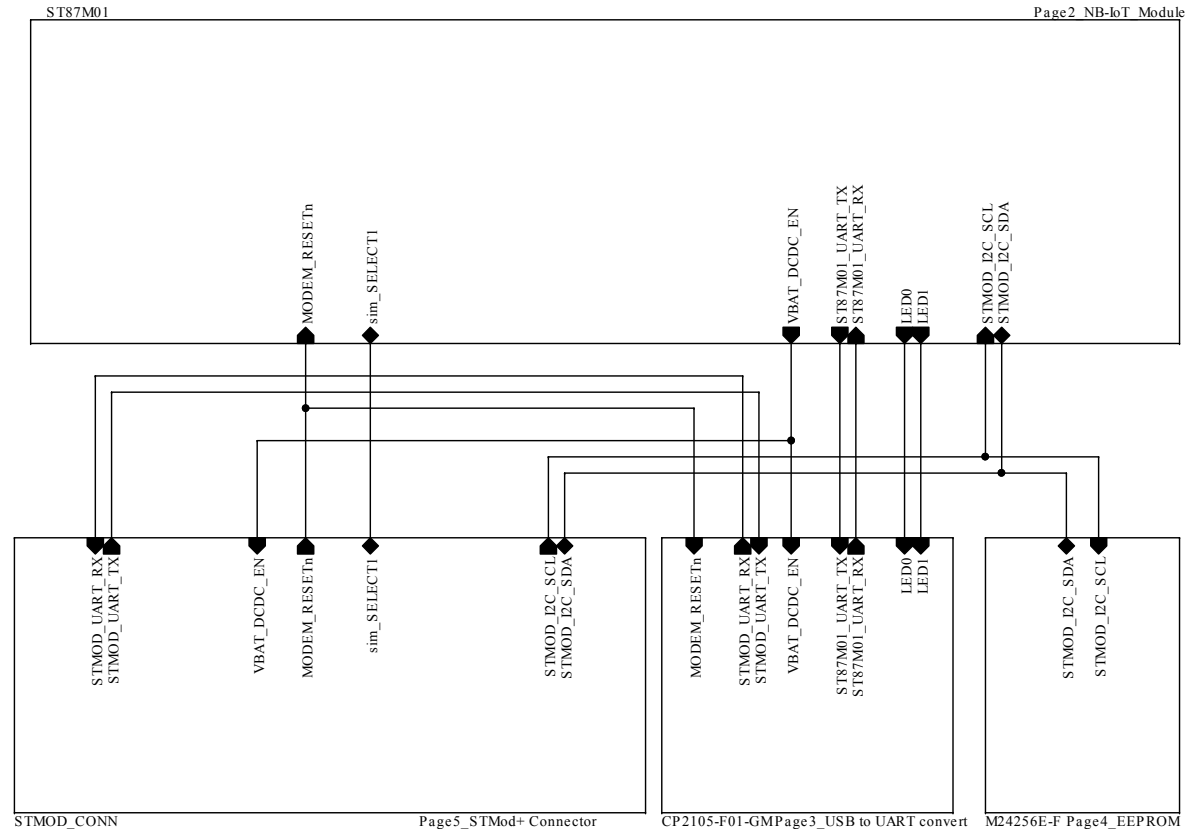


Figure 2. STEVAL-874SIMCB circuit schematic (2 of 5)

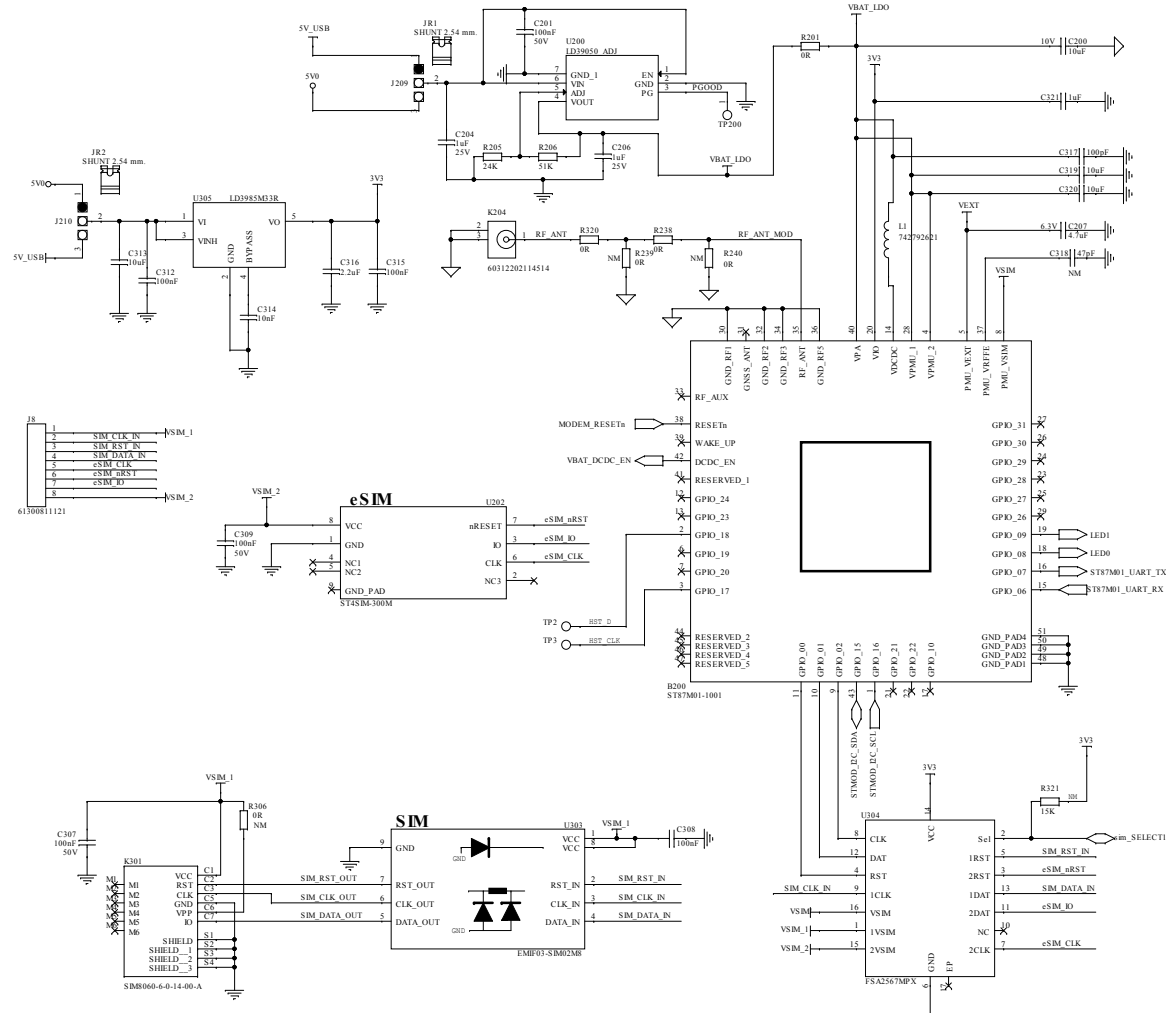


Figure 3. STEVAL-874SIMCB circuit schematic (3 of 5)

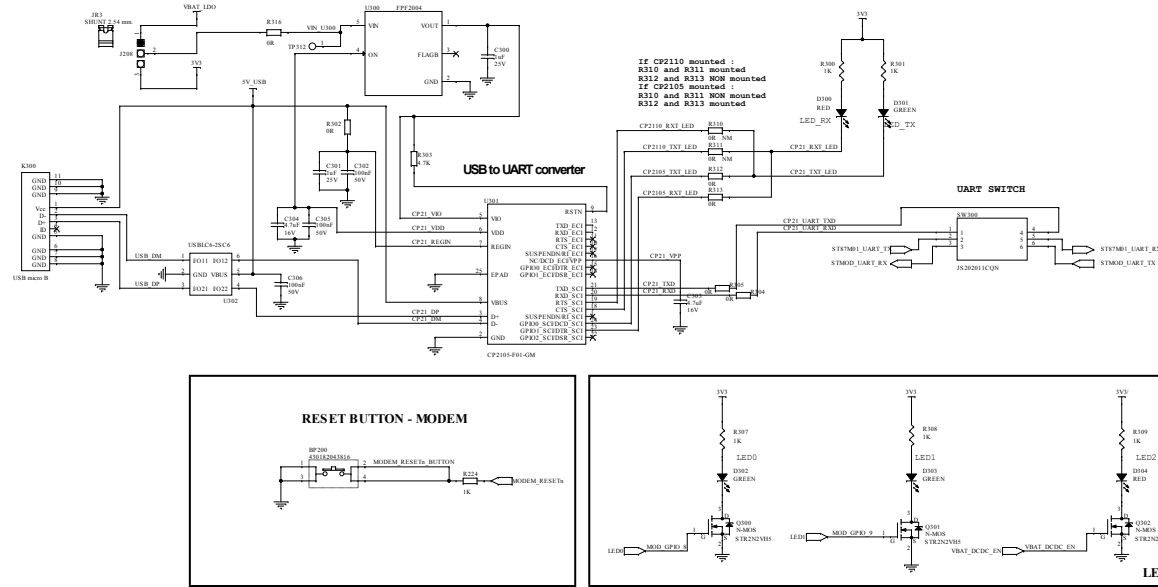


Figure 4. STEVAL-874SIMCB circuit schematic (4 of 5)

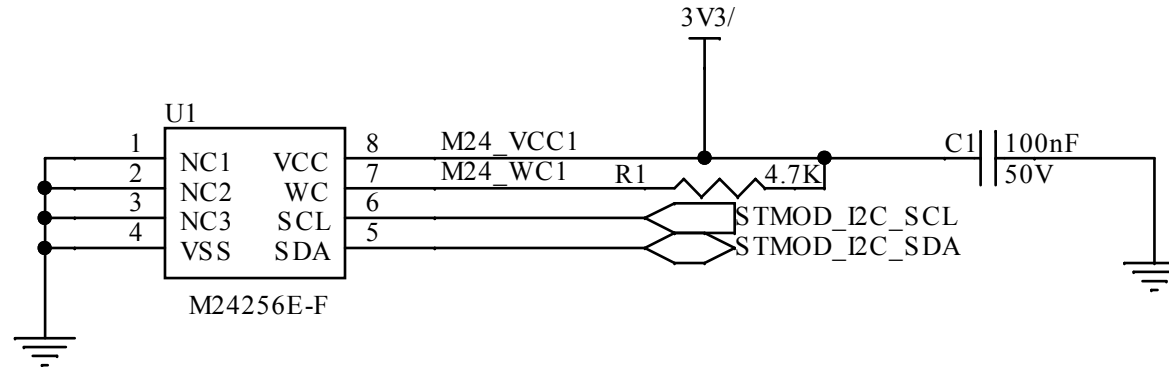
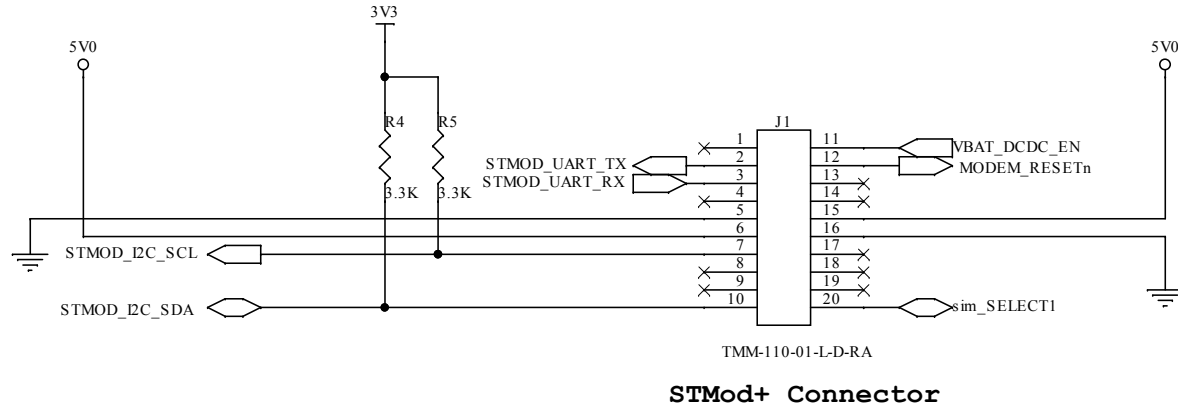


Figure 5. STEVAL-874SIMCB circuit schematic (5 of 5)



2 Custom evaluation boards information

Notice: These evaluation boards are custom designed and built, in small quantities, according to specific requests from customers and are destined for evaluation and testing of ST products in a research and development setting. Please contact ST to provide your specific requests and get your custom built board(s).

Revision history

Table 1. Document revision history

Date	Revision	Changes
18-Nov-2025	1	Initial release.

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