

ST87M01-1400 NB-IoT and WMBUS module evaluation kit



Features

- KIT composition
 - EVST87M01W-1 board
 - Micro-B USB cable
 - LTE antenna
- Board connectors
 - USB connector
 - SMA RF antenna connector
 - External power supply connector
 - Arduino connectors
 - HST (Trace) connector
 - Nano SIM card holder
 - JTAG CM4
- 3 power supply connection options
 - USB connector
 - External connector
 - Arduino connector
- Interfaces
 - UART for AT commands
 - 2 x ADC
 - GPIOs
- LEDs
 - 3 module activity LEDs
 - 2 UART activity LEDs
- Button
 - 1 reset push-button

Product status link

EVST87M01W-1

Product status link

Evaluation kit code	EVST87M01W-1
Part number ST87M01	ST87M01

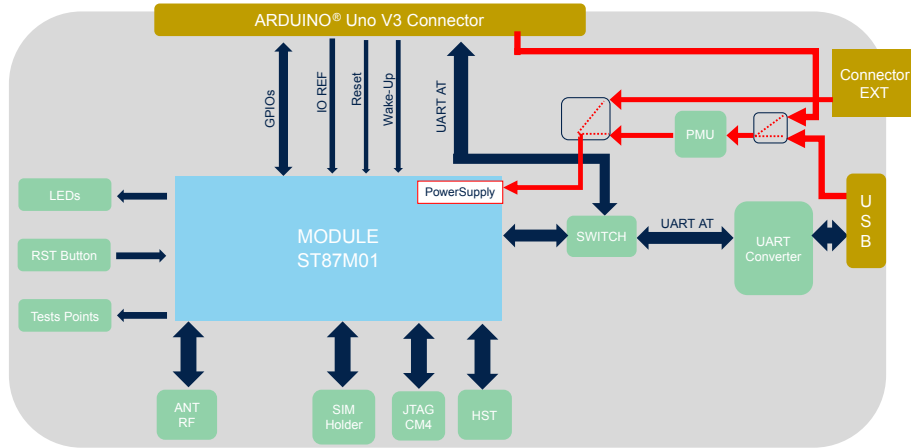
Description

The **EVST87M01W-1** is an evaluation board for the ST87M01-1400 NB-IoT and WMBUS module, enabling ready-to-use solution for low-power cellular IoT applications. It adopts an X-NUCLEO shield form factor with Arduino® compatible connectors for easy integration with STM32 Nucleo and other Arduino®-compatible host boards.

The kit includes the EVST87M01W-1 board, LTE antenna, and a Micro-B USB cable. The board exposes the main ST87M01 interfaces (UART for AT commands, GPIOs, ADCs, Arduino® connectors), offers multiple power supply options (USB, external, Arduino®), and integrates status LEDs and a reset push-button. It can connect either to a PC or to an external microcontroller, providing a complete platform to evaluate NB-IoT and WMBUS connectivity for applications such as smart metering and industrial monitoring.

1 System overview

Figure 1. System overview



Revision history

Table 1. Document revision history

Date	Version	Changes
25-Jun-2025	1	Initial release.
04-Feb-2026	2	Changed title; updated Cover image ; updated Section Description ; changed Figure 1



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