

EVKITST87M01-2 WITH Conexa Low Power SIM



Full evaluation kit for resilient,
secure NB-IoT connectivity



Experience seamless, end-to-end connectivity with the EVKITST87M01-2, including Wireless Logic's Conexa Low Power SIM

STMicroelectronics and Wireless Logic have partnered to deliver a seamless, low-power NB-IoT technology and connectivity solution for developers. The comprehensive EVKITST87M01-2 evaluation kit integrates the ultracompact ST87M01 NB-IoT cellular and GNSS and Wi-Fi positioning module with the Conexa Low Power SIM. This streamlined platform enables efficient IoT evaluation and prototyping, accelerating time to market with a complete, ready-to-use design ecosystem.

KEY BENEFITS AND BENEFITS

- **EVKITST87M01-2 with Conexa Low Power SIM** for plug-and-play NB-IoT evaluation and designs
- **ST87M01 module features:**
 - Ultracompact (10.6 x 12.8 mm)
 - LTE Category NB2 (Release 15)
 - Industrial grade: (-40 to +85°C)
 - Up to 23 dBm output power
 - Power saving modes
- **NB-IoT coverage** in 19 countries across Europe, the Middle East, and Africa
- **Free evaluation offer** – 6-months connectivity access (50 MB data) and connectivity management platform

KEY APPLICATIONS

- **Smart energy & cities**
 - Metering
 - Lighting
 - Parking
 - Environment monitoring
- **Smart industry & logistics**
 - Asset tracking
 - Condition monitoring
 - Predictive maintenance
- **Smart agriculture**
 - Precision farms
 - Livestock monitoring
- **Healthcare & safety**
 - Wearables
 - Personal alarms

Seamless integration for smarter IoT development

The EVKITST87M01-2 evaluation kit with Conexa Low Power SIM has been tested to provide a complete, ready-to-deploy connectivity platform.

Developers can accelerate proof-of-concept and progress to mass production with the proven performance of the ST87M01 module and Wireless Logic's reliable NB-IoT connectivity.

Power efficiency meets reliability

The EVKITST87M01-2 delivers high performance and reliability across diverse environmental conditions. The ST87M01 module supports multiple global NB-IoT bands, ensuring extensive coverage and seamless compatibility with cellular networks worldwide. Its integrated GNSS and Wi-Fi positioning capabilities enable a wide array of IoT applications, including smart grid, smart metering, smart city, factory automation, industrial IoT, and asset tracking.

Integrated power saving mode (PSM) and extended discontinuous reception (eDRX) enable long-lasting IoT applications by minimizing energy consumption.

The ST87M01 module, paired with Conexa Low Power SIM, combines advanced power-saving hardware with SIM pause/resume capability and network-optimized profiles. This synergy ensures pervasive coverage, reliable connectivity, and sustainable large-scale deployments – maximizing device lifetime even in remote scenarios.

Why STMicroelectronics and Wireless Logic?

STMicroelectronics offers a comprehensive solution enabling NB-IoT cellular connectivity and GNSS and Wi-Fi positioning with elevated industrial-grade reliability and long-term availability.

Wireless Logic comes with a comprehensive portfolio of end-to-end IoT connectivity solutions, and their mobile core network for IoT devices provides resilient and secure global cellular connectivity.

Together, ST and Wireless Logic provide a trusted, long-lasting connectivity framework for OEMs, ODMs, and solution developers, helping them innovate and launch their NB-IoT applications to market.

What's inside the EVKITST87M01-2

The EVKITST87M01-2 evaluation board with ST87M01 module is compatible with the Nucleo hardware environment via Arduino connectors. It includes the following features:

- ST87M01-1301 module with NB-IoT cellular and GNSS and Wi-Fi positioning
- Separate antennas for GNSS/Wi-Fi and NB-IoT
- USB cable for power and connectivity
- Conexa Low Power SIM with 50 MB preloaded NB-IoT data, valid for 6 months.

All information is subject to change.

Please contact Wireless Logic if you have requirements or the following questions:

- If you don't see your desired country/network listed, we regularly add new capabilities and can work to meet your specific requirements on selected projects.
- We indicate where PSM and eDRX operation have been tested against networks in these countries.
- Contact Wireless Logic for the latest details regarding PSM, eDRX, and network availability. Not all networks provide nationwide coverage in the countries listed.



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ST87M01 product table

Order code	Description
ST87M01-1001	NB-IoT only module
ST87M01-1301	NB-IoT + GNSS/Wi-Fi positioning
EVKITST87M01-2	ST87M01 evaluation kit: ST87M01-1301, antenna for GNSS/Wi-Fi positioning, antenna for NB-IoT, USB cable, Conexa Low Power SIM



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