



Murata Type 1SC-NTN Evaluation Kit

IoT Connectivity and Platform Services

Soracom provides IoT connectivity and platform services to over 20,000 businesses with solutions for every challenge in IoT. We're focused on making it easy to connect M2M devices at scale, with a powerful IoT SIM that provides global multicarrier connectivity. Soracom provides direct integrations with the world's leading cloud platforms, making it easy to transmit data from your device to AWS, Google Cloud Platform, or Microsoft Azure.

Our team of IoT experts is on hand to learn more about your challenges, and to discuss how Soracom can help at every stage of your product development lifecycle.



**No
Lock-In's**



**Flexible
Plans**



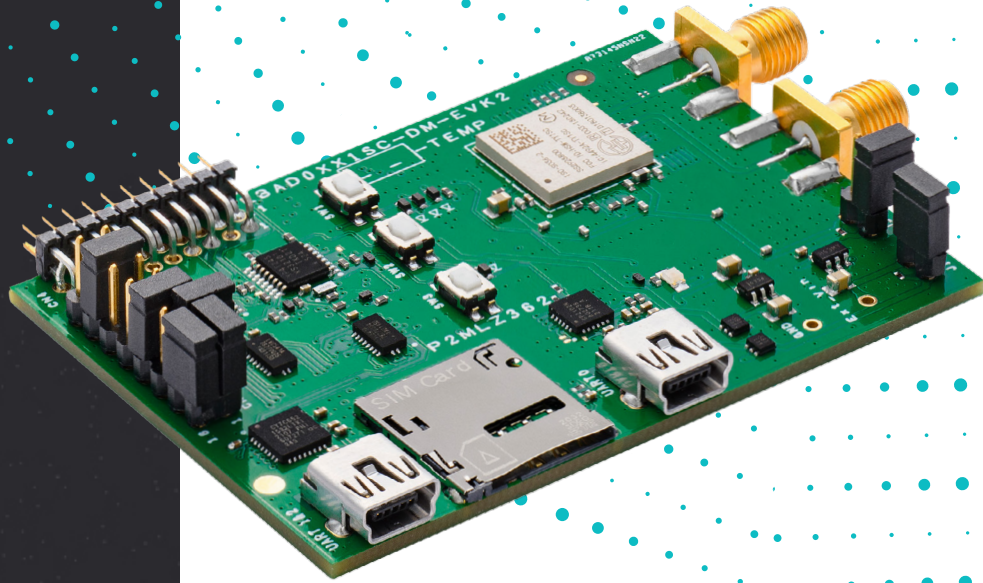
**Cloud
Agnostic**



**Total
Visibility**

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Unlock Off-Grid IoT Connectivity with Soracom's Satellite NTN Evaluation Kit

The Soracom NTN EVK is an evaluation and application development kit for the Murata Type 1SC-NTN module, designed to extend Soracom's cellular connectivity into non-terrestrial networks (NTN). With seamless coverage that bridges terrestrial cellular and satellite links, developers can build and test applications that remain connected far beyond traditional network boundaries.

This kit empowers IoT developers, as well as hardware, firmware, and systems engineers, to evaluate and optimize solutions for use cases in agriculture, remote sensing, environmental monitoring, emergency alerts, and lightweight telemetry in the world's most remote and hard-to-reach locations.

By combining Murata's advanced NTN-enabled communication module with the Soracom platform, customers gain a flexible, scalable, and cost-effective path to deploying sustainable IoT solutions, whether on the ground or in the skies. Soracom collaborated with Murata and Skylo to bring this innovative EVK to life.

Who Should Use Soracom Satellite + Cellular?



Oil, Gas, &
Utility Monitoring



Climate and
Environmental
Sensors



Remote Safety
& Emergency
Alert Devices



Animal &
Asset Tracking

**Especially valuable for low-power,
low-data applications.**

One SIM. Seamless connection. Zero complexity.



Satellite + Terrestrial Coverage

Achieve seamless coverage from the ground to the skies with non-terrestrial network (NB-NTN) support. Fallback between LTE-M / NB-IoT and satellite NB-IoT.



Quick Prototyping

Plug-and-play evaluation kit for fast start.



Future-Ready Technology

Built on the proven Murata Type 1SC LPWA module with NB-IoT NTN support.



Soracom Integration

Pre-configured with Soracom's SIM and platform tools for easy connectivity management.

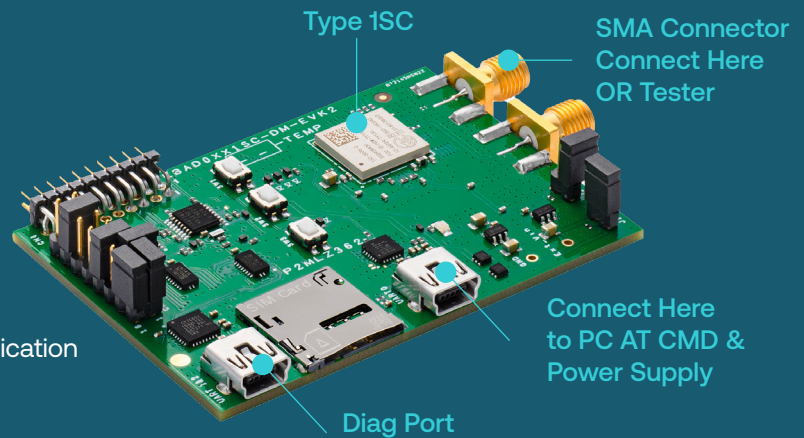
How to connect?

Simply plug in the Soracom NTN EVK to your PC or microcontroller board by using the included USB cable.

What's in the Soracom NTN EVK?

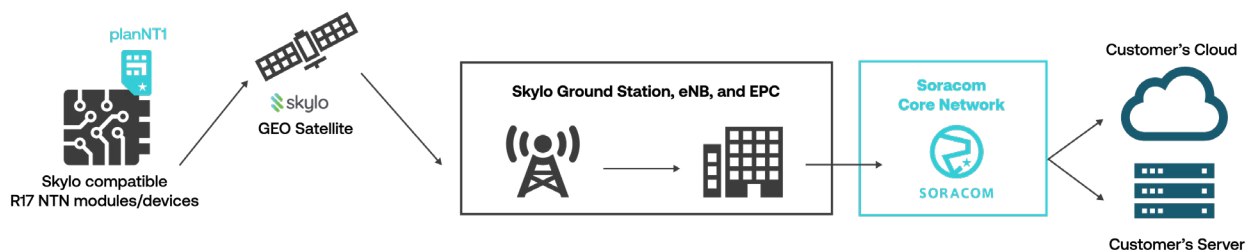
The Murata Type 1SC-NTN EVK contains the following items:

- ✓ Quick Start Guide from Murata
- ✓ 1x Murata Type 1SC-NTN Evaluation Board (EVB)
- ✓ 2x Mini USB cables
- ✓ 1x External Antenna optimized for satellite communication
- ✓ 1x Soracom SIM card with option to turn it into a satellite plan over-the-air



How It Works

- Soracom customers can activate Skylo connectivity via the SIM card included in this NTN EVK, switching seamlessly between cellular and NB-NTN through the global 3GPP Release 17 standard.
- Uses Soracom's Subscription Container Service to add Skylo-based satellite plan (planNT1) over-the-air
- Available in North America, Europe, and Oceania



How to Improve NB-NTN Signal Quality

- Try the EVK outside in a location where you have a clear view of the (blue) sky
- Keep the antenna at a distance from other underlying surfaces
- Elevate the antenna from the ground by about 2 metres
- Keep the antenna away from larger metal objects
- Place the antenna away from 50Hz/60Hz power sources (power cords/adapters)

Available SKUs

Soracom Product Code	Soracom Product Name	Default Connectivity
4573326593342	Murata Type 1SC-NTN Evaluation Kit (Global Connect SIM)	Soracom global SIM (plan01s)
4573326593663	Murata Type 1SC-NTN Evaluation Kit (US Connect SIM)	Soracom US multicarrier SIM (plan-US)

Technical Datasheet

Soracom Product Name	Murata Type 1SC-NTN Evaluation Kit
Manufacturer	Murata
Murata Product Code	LBAD0XXISC-DMSB-EVK-B
Size	78mm × 51mm × 12mm
Weight	20.82 grams
Chipset	Altair ALT1250
Supported SIM Types	Micro (3FF) SIM (included in the EVK as a separate SIM card)
Antenna	1x External Antenna included in the EVK
Power Supply	USB or 5V Input
Interface	UART
Memory	16MB Flash
GNSS	GPS and GLONASS
Supported Networks	LTE-M (Cat M1), NB-IoT, NB-IoT NTN
Supported LTE-M Bands	B1, B2, B3, B4, B5, B8, B12, B13, B14 (Cat M1 Only), B17, B18, B19, B20, B25, B26, B28
Default connectivity	Soracom subscription for cellular testing + planNT1 for satellite testing
Documentation	Available for download by registering on “my Murata.” See note included in the package.
RoHS	Yes
Certifications	FCC / IC / RED / TELEC / KC / NCC / GCF / PTCRB