

iSIM

Production Reel Based on Murata Type 1SC

Part Number: 4573326593168

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 make it easy to connect M2M devices at scale, with a powerful IoT SIM that 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**



iSIM is a subscriber identification module built directly into a cellular module's system-on-chip (SoC), creating a low-profile connectivity solution that eliminates the need for a physical SIM (the iSIM is, of course, a SIM). Its core functionality addresses multiple challenges facing IoT developers looking for the next great innovation, particularly as it pertains to miniaturization.

By eliminating the need for separate components, iSIM saves valuable space on the printed circuit board for new features while reducing power requirements and device costs. Its compact design and low power consumption make it an ideal choice for use cases like wearables and trackers, where every millimeter counts.

iSIM builds on the robust security standards set by eSIM technology. Since iSIM is embedded within the device's core chipset, it's better protected against tampering. It also offers multiple layers of authentication, making iSIM a secure, cost-effective, and future-proof choice for the next generation of IoT innovations.

Soracom iSIM 1K Reel based on Murata Type 1SC

Ultra-Small, Long Life Modem

Modem features low and mid bands, low-current consumption (eDRX and PSM), and battery life of 10+ years. Ideally suited for small, battery-operated IoT devices and applications.

Features

- LTE Cat M1 - 23 dBm
- Package: LGA
- External antenna configurations
- 3GPP eDRX and PSM modes
- Low-power consumption enables up to 10 years of battery life
 - » Hibernation current: 3uA
 - » eDRX current: <25uA @ 8 hyperframes
 - » PSM current: dormant window configurable
- OTA firmware upgrade
- Global Carrier Certifications: GCF and PTCRB



Actual Size

Benefits

- ✓ Smallest/highly integrated LTE Cat M1/NBI modem available on the market
- ✓ iUICC capable for selected MNO/MVNO
- ✓ Multi-band (low and mid-band) support that covers most of the globe
- ✓ Provides end customers the flexibility to switch between modes globally, especially for those carriers planning to support both.

Technical Datasheet

Soracom Product Name	Soracom iSIM 1k Production Reel based on Murata Type 1SC
Manufacturer	Murata
Murata Product Name	LBAD0XX1SC-713
Grade	Industrial
Size	11.1mm × 11.4mm × 1.5mm
Weight	0.45 grams
Supported Networks	LTE-M (Cat M1), NB-IoT, Satellite NB-IoT (NTN-IoT)
Supported LTE Bands (LTE-M / NB-IoT)	B1, B2, B3, B4, B5, B8, B12, B13, B14 (CAT M1 Only), B17, B18, B19, B20, B25, B26, B28
Chipset	Altair ALT1250
System Clock	Integrated 26MHz (TCXO) & 32KHz (X ^o Tal)
Operating Temp Min	-40
Operating Temp Max	85
Type Mounting	LGA
Type Package	Resin Mold
Interface Voltage	1.8v
Supply Voltage	2.85-4.35v
Transmit Power	+23dBm max
Power Class	Optimized for Class 3 LTE output power
Sleep Mode Current	eDRX Current Consumption (avg)/LTE-M: 43 uA PSM Current Consumption (avg)/LTE-M: 1.4 uA
Host Interface	UART
GNSS	GPS and Glonass
RoHS	Yes
Certified	FCC / IC / RED / TELEC / KC / NCC / GCF / PTCRB