SORACOM

Soracom Onyx LTE™ USB Modem

IoT/M2M-optimized LTE Cat 4 USB Modem

IoT Connectivity and Platform Services

Soracom provides IoT connectivity and platform services to over 25,000 businesses and over 6M connections, 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 connectivity in 160 countries. 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

The **Soracom Onyx LTE™ USB Modem** is a high performance communications device that enables cellular data connectivity for fixed and mobile applications, such as smart agriculture, healthcare, asset tracking, and remote management applications.

Soracom Onyx features a Quectel® EG25-G LTE Cat. 4 module which provides global 4G/LTE, 3G, and 2G cellular connectivity in a single device and is optimized specifically for IoT and M2M applications. With a USB port and driver support for Linux, Soracom Onyx can be installed on a wide variety of devices to easily add global cellular data connectivity.

Soracom Onyx includes built-in antennas for easy installation without extra wires or accessories, and also provides two external CRC9 antenna connectors to support custom antenna configurations.

Soraocm Onyx also features built-in application protocols such as TCP, UDP, PPP, FTP, HTTP, and MQTT, allowing devices to integrate into various system architectures and cloud services quickly without the need for custom code.

Soracom Onyx LTE™ USB Modem

Features

- Global 4G/LTE, 3G, and 2G network compatibility
- Compact, rugged design
- Easy installation
- Integrated antennas
- Built-in application protocols
- Soracom Connectivity Management Platform included at no additional cost

- 4G/3G/2G technology
- USB interface
- Application protocols
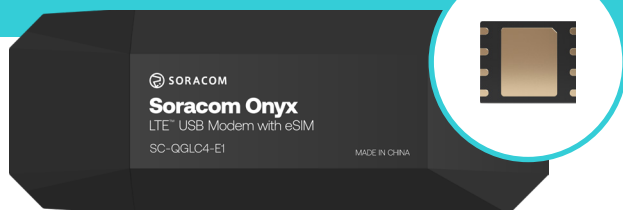- AT commands
- Global network compatibility
- SMS & USSD
- Status LED

Which Soracom Onyx LTE™ USB Modem is right for your project?
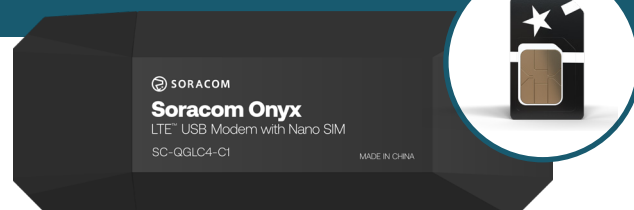
eSIM Embedded

Soracom Onyx LTE™ USB Modem with global eSIM (Air plan01s)

Part #: 4573326591591

- ✔ Most advanced and durable
- ✔ Soracom Industrial Grade MFF2 eSIM embedded
- ✔ Global multicarrier connectivity designed for IoT
- ✔ Vibration and tamper resistant
- ✔ Resists extremes of temperature and humidity
- ✔ Switch Soracom plans with Subscription Containers

IoT SIM Installed

Soracom Onyx LTE™ USB Modem with global Nano SIM pre-inserted (Air plan01s)
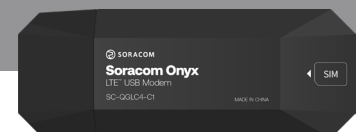
Part # 4573326592604

- ✔ Simplest
- ✔ Soracom nano IoT SIM pre-installed
- ✔ Global multicarrier connectivity designed for IoT
- ✔ Switch Soracom plans with Subscription Containers
- ✔ SIM card can be replaced manually

No SIM included

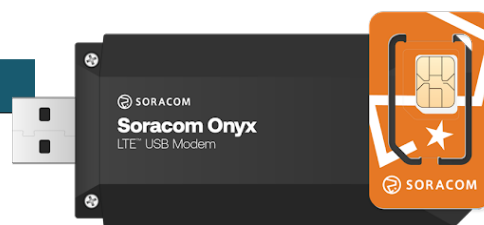**Soracom Onyx LTE™ USB Modem with 4FF SIM slot (SIM sold separately)**

Part #: 4573326591584

- ✔ No SIM included
- ✔ Manually install your SIM card of choice
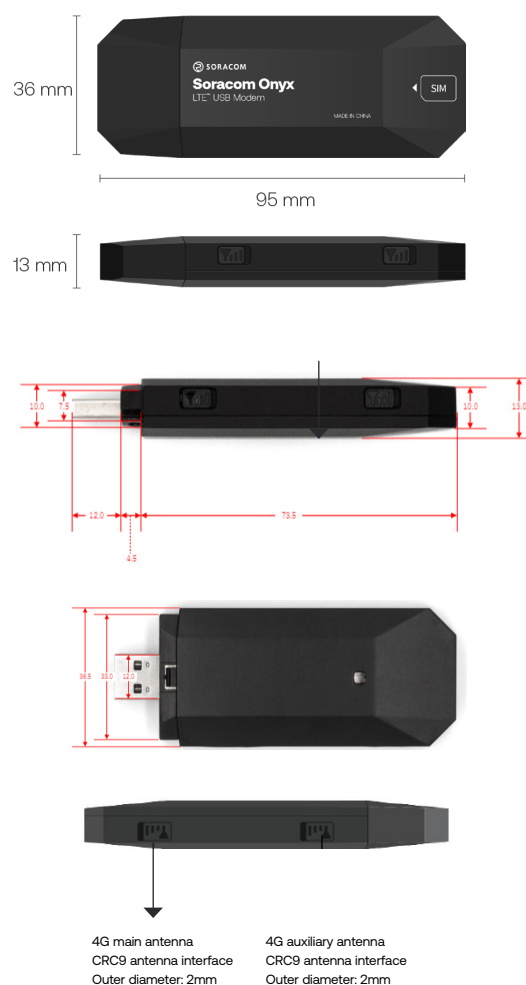- ✔ Does not include Soracom Connectivity Management Platform

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Soracom Onyx Connectivity Kits

Connectivity Kits for Europe	Monthly Data Bundle Size	Including
Soracom Onyx 100 MB Europe	100 MB	
Soracom Onyx 500 MB Europe	500 MB	12-month data subscription based on the selected planX3-EU data bundle*
Soracom Onyx 1 GB Europe	1 GB	

*providing access to Soracom platform services for data handling, remote device access, packet capture, and more.

Technical Specifications

CONNECTIVITY	Modem	EG25-G	
	Region	Global	
	Performance	LTE Cat. 4 (3GPP Release 11)	
	Network Bands	4G	LTE-FDD B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28
			LTE-TDD B38/B39/B40/B41
		3G	UMTS B1/B2/B4/B5/B6/B8/B19
		2G	GSM 850/900/1800/1900
	Packet Data	Max. 150Mbps downlink / Max. 50Mbps uplink	
APPLICATION	Compatibility	3GPP TS 27.007, TS 27.005, Enhanced AT Commands	
	Protocols	TCP, UDP, PPP, FTP, HTTP, MQTT, NTP, NITZ, PING, QMI	
	Messaging	SMS, USSD	
	Operating Systems	Linux	
INTERFACES	USB	USB 2.0 Type A	
	Antenna	Built-in, 2 × CRC9	
POWER	Operating Voltage	USB powered, 4.2V ~ 6.0V	
	Power Consumption	35mA (idle, typical), 600mA (during communication, typical)	
PHYSICAL	Dimensions	95mm × 36mm × 13mm	
	Weight	36g	
	Casing	PC-ABS	
	Temperature Range	-20°C ~ 60°C (operation), -35°C ~ 85°C (storage)	
	Humidity	5% ~ 75% (operation, non-condensing), Max. 80% (storage, non-condensing)	
PACKAGING AND ORDERABLE QUANTITIES	Minimum Order Quantity	One	
	Order Multiple	One	
	Number of Devices per Pack	One	
	Packaging Type	Box	
	Box Dimensions	120mm x 70mm x 20mm	
CERTS	Regulatory	FCC, PTCRB, JATE, TELEC, CE, UKCA, KC	
	Safety	RoHS	

36 mm

95 mm

13 mm

10.0   7.5   10.0   13.0

12.0   73.5

4.5

16.5   11.0

4G main antenna
CRC9 antenna interface
Outer diameter: 2mm

4G auxiliary antenna
CRC9 antenna interface
Outer diameter: 2mm

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Mouser Electronics

Authorized Distributor

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