



# Onyx LTE USB Cellular Modem

IoT/M2M-optimized LTE Cat 4 USB Modem

## IoT Connectivity and Platform Services

Soracom provides IoT connectivity and platform services to over 20,000 businesses and over 4M 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

You create. We connect.



The **Soracom Onyx LTE USB Cellular 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.

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 Windows and Linux, Onyx can be installed on a wide variety of devices to easily add global cellular data connectivity.

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.

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.

Questions? Visit [soracom.io](http://soracom.io) for more information.

# Onyx LTE USB Cellular Modem

## Features

- Global 4G/LTE, 3G, and 2G network compatibility
- Compact, rugged design
- Easy installation
- Integrated antennas
- Built-in application protocols

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

## Onyx LTE USB Cellular Modem 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
APPLICATION		3G	UMTS B1/B2/B4/B5/B6/B8/B19
		2G	GSM 850/900/1800/1900
	Packet Data	Max. 150Mbps downlink / Max. 50Mbps uplink	
	Compatibility	3GPP TS 27.007, TS 27.005, Enhanced AT Commands	
INTERFACES	Protocols	TCP, UDP, PPP, FTP, HTTP, MQTT, NTP, NITZ, PING, QMI	
	Messaging	SMS, USSD	
	Operating Systems	Windows 7/8/8.1/10, Linux 2.6 ~ 5.4, Android 4.x/5.x/6.x/7.x/9.x	
POWER	USB	USB 2.0 Type A	
	SIM	Nano SIM (4FF)	
PHYSICAL	Antenna	Built-in, 2 × CRC9	
	Operating Voltage	USB powered, 4.2V ~ 6.0V	
	Power Consumption	35mA (idle, typical), 600mA (during communication, typical)	
	Dimensions	95mm × 36mm × 13mm	
CERT'S	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)	
	Regulatory	FCC, PTCRB, JATE, TELEC, CE*	
	Safety	RoHS	

\* Certification in progress



## Onyx LTE USB Cellular Modem Orderable Quantity

Soracom Part Number	Short Description	Minimum Order Quantity	Order Multiple	Number of devices per pack	Packaging Type
4573326591591	Onyx USB Cellular Modem with eSIM included (AIR plan 01s)	1	1	1	Box
4573326592031	Onyx USB Cellular Modem with SIM slot	1	1	1	Box

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