

Skywire Nano 4G LTE-M (CAT M1), NB-IoT (NB1, NB2)

NimbeLink, a global leader in embedded cellular modem technology and asset tracking solutions, has introduced the Skywire Nano NL-SW-LTE-NRF9160 modem. This new modem offers LTE-M (CAT M1) and NB-IoT (NB1, NB2) connectivity for global applications. The modem also includes an integrated GPS/GNSS receiver. The NL-SW-LTE-NRF9160 is compatible with many of the world's LTE-M and NB-IoT networks.

Features

- No carrier certification required
- Smallest embedded modem form factor
- User accessible applications processor
- Flexible antenna options
- UART, SPI, I2C serial interfaces
- Verizon soldered down SIM
- Support for external SIM sockets
- Supports Power Save Mode and eDRX
- RoHS compliant/Radio Equipment Directive

Advantages

- Global LTE coverage LTE-M (CAT M1) and NB-IoT (NB1, NB2)
- Simple Firmware over-the-air update system
- Easy GSMA back-off solution
- AT command interface for UDP and TCP/IP socket dials
- GNSS support

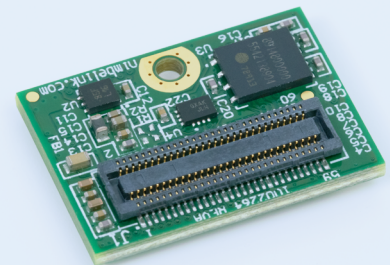


Part Number	Description
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NL-SWN-LTE-NRF9160	Skywire Nano, LTE-M, NB1, NB2, with GNSS
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About The Skywire Family

Skywire cellular modems are designed to make cellular integration fast and easy. Exceptionally small, lowest power, and end-device certified, Skywire modems enable developers to quickly and reliably connect IoT products to cellular networks around the world. Skywire modems are backed by industry leading documentation and expert-level product support.



Technical Specifications (NL-SWN-LTE-NRF9160)

Target Region	
	Global
Compatible Carriers	AT&T, Orange, Telstra, Telus, T-Mobile, Verizon, Vodafone, and more
Cellular Technology	
LTE Category	LTE-M (CAT M1), NB-IoT (NB1, NB2)
LTE Frequency Bands	LTE-FDD: B1[2100], B2[1900], B3[1800], B4[1700], B5[850], B8[900], B12[700], B13[700], B14[700], B17[700], B18[850], B19[850], B20[800], B25[1900], B26[850], B28[700], B66[1700]
3G Technology Supported	N/A
3G Frequency Band	N/A
2G Technology Supported	N/A
2G Frequency Band	N/A
Data Speeds	
Download Rate and Upload Rate	Download Max: LTE-M: 375 Kbps NB-IoT: 60 Kbps Upload Max: LTE-M: 300 Kbps NB-IoT: 30 Kbps
Hardware	
Form Factor	Skywire Nano Interface
Dimensions	22mm x 15mm x 4mm
Weight	4 grams
Internet Protocols	
Network Stack Support	NimbeLink provided AT command parser supporting: TCP/IP, UDP/IP, IPv4/IPv6, PING, Roadmap for TLS 1.2 and MQTT
SMS	SMS supported
Location	
GNSS	GPS
Power Supply	
Supply Voltage	3.3V to 5.5V (3.8V nominal)
I/O Voltage	1.7V - 3.6V
Current Consumption	Average TBD mA Peak TBD mA Idle TBD mA Sleep TBD uA PSM 5uA eDRX 19uA
Interfaces	
Type	Multiple UART, SPI, I2C, GPIO
USB Driver Support	N/A
RF	Primary, SISO DL (U.FL)
SIM	
Type	Integrated Verizon SIM, support for external SIM sockets
Approvals	
Regulatory Certifications	PTCRB, CE/RED, FCC, IC
Carrier	AT&T, Verizon, and more
Compliance	RoHS compliant
Temperature Range	
Industrial Grade	-40°C to +85°C
Support and Warranty	
	1 Year standard warranty

About NimbeLink

NimbeLink is the world's most trusted partner for cellular solutions for the Industrial Internet of Things (IIoT). The Skywire® series of cellular embedded modems, enable dramatic reduction in development and time-to-market. NimbeLink also develops and markets complete, highly configurable edge-to-enterprise Asset-Tracking Solutions.

For more information, visit [NimbeLink.com](https://nimbelink.com)

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