

Skywire 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 NL-SW-LTE-QBG95 modem. This new Skywire modem offers LTE-M (CAT M1) and NB-IoT (NB1, NB2) connectivity for global applications with fallback to 2G, at lower power than the BG96 processor. It utilizes the Qualcomm 9205 chipset and Quectel BG95-M3 module. The modem also includes an integrated GPS/GNSS radio. The NL-SW-LTE-QBG95 is compatible with many of the world's LTE-M and NB-IoT networks.

Features

- No carrier certification required
- Small form-factor
- Skywire Standard Interface
- Flexible antenna options
- USB & UART serial interfaces
- Verizon soldered down SIM and Micro-SIM 3FF slot
- Supports Power Save Mode and eDRX
- RoHS compliant/Radio Equipment Directive

Advantages

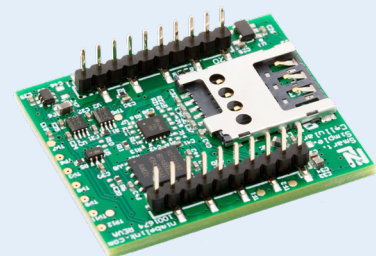
- Global LTE coverage with 2G fallback
- Pin compatible with all Skywire modems
- GNSS support for GPS, GLONASS, Beidou, Galileo, QZSS
- Global hardware compatibility
- Dual SIM support



Part Number	Description
NL-SW-LTE-QBG95	Skywire, LTE-M, NB1, NB2, 2G fallback, with GNSS

About The Skywire Family

Skywire cellular modems are designed to make cellular integration fast and easy. Exceptionally small, pin-compatible, 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-SW-LTE-QBG95)

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], B27[850], B28[700], B31[450], B66[1700], B71[600]
3G Technology Supported	N/A
3G Frequency Band	N/A
2G Technology Supported	GSM, EDGE, GPRS
2G Frequency Band	GSM850, EGSM900, DCS1800, PCS1900
Data Speeds	
Download Rate and Upload Rate	Download Max: LTE-M: 589 Kbps NB-IoT: 136 Kbps GPRS: 107 Kbps EDGE: 296 Kbps Upload Max: LTE-M: 1.2 Mbps NB-IoT: 150 Kbps GPRS: 85.6 Kbps EDGE: 236.8 Kbps
Hardware	
Form Factor	Skywire Interface
Dimensions	29mm x 33mm x 10.5mm
Weight	8 grams
Internet Protocols	
Network Stack Support	Integrated TCP/IP, UDP/IP, HTTP/HTTPS, FTP/SFTP, SSL/TLS, IPv4/IPv6, NITZ, PING, MQTT, PPP
SMS	SMS supported
Location	
GNSS	GPS, GLONASS, Beidou, Galileo
Power Supply	
Supply Voltage	2.5V to 4.8V (3.8V nominal)
I/O Voltage	1.65V - 5.5V
Current Consumption	Average TBD mA Peak TBD mA Idle TBD mA Sleep TBD uA
Interfaces	
Type	UART, USB (USB 2.0 compliant)
USB Driver Support	OS: Windows 7/8/10, Windows CE 5/6/7, Linux 2.6/3.X/4.1-4.14, Android 4/5/6/7/8 Drivers: PPP QMI AT Console RIL Driver
RF	Primary, SISO DL (U.FL)
SIM	
Type	Integrated Verizon SIM, additional 3FF SIM slot
Approvals	
Regulatory Certifications	PTCRB, CE/RED, FCC, IC
Carrier	AT&T, Rogers, Telus, 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

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