



NimbeLink 4G LTE-M, NB-IoT

Airgain, a global leader in embedded cellular modem technology and asset tracking solutions, has introduced the NimbeLink NL-SW-LTE-QBG96 modem. This new NimbeLink modem offers LTE Category M/NB-IoT connectivity for global applications with fallback to 2G, as well as an integrated GPS/GNSS radio. The NL-SW-LTE-QBG96 is compatible with many of the world's LTE-M and NB-IoT networks.

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

FEATURES

- No carrier certification required
- Small form-factor
- NimbeLink Standard Interface
- Flexible antenna options
- USB & UART serial interfaces
- Verizon eSIM
- Supports Power Save Mode
- RoHS compliant/Radio Equipment Directive

ADVANTAGES

- Global LTE coverage with 2G fallback
- Pin compatible with all NimbeLink modems
- GNSS support for GPS, GLONASS, Beidou/Compass, Galileo, QZSS
- Global hardware compatibility

PART NUMBER

	DESCRIPTION
NL-SW-LTE-QBG96	LTE-M, NB-IoT, 2G fallback, with GNSS

TECHNICAL SPECIFICATIONS

TARGET REGION

Global

Compatible Carriers AT&T, Orange, Telstra, Telus, Verizon, Vodafone

CELLULAR TECHNOLOGY

LTE Category LTE-M, NB-IoT

LTE Frequency Bands LTE-FDD: B1[2100], B2[1900], B3[1800], B4[1700], B5[850], B8[900], B12[700], B13[700], B18[850], B19[850], B20[800], B26[850], B28[700] | LTE-TDD: B39[1900] (LTE-M only)

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: LTE-M: 375 Kbps | NB-IoT: 32 Kbps | GPRS: 107 Kbps | EDGE: 296 Kbps
Upload: LTE-M: 375 Kbps | NB-IoT: 70 Kbps | GPRS: 85.6 Kbps | EDGE: 236.8 Kbps

HARDWARE

Form Factor NimbeLink 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 Stacks

SMS SMS supported

LOCATION

GNSS GPS, GLONASS, Beidou/Compass, Galileo, QZSS

POWER SUPPLY

Supply Voltage 3.4V to 4.8V (3.8V nominal)

I/O Voltage 1.65V - 5.5V

Current Consumption	Average 130 mA Peak 900 mA Idle 19 mA Sleep 680 uA
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INTERFACES

Type	UART, USB (USB 2.0 compliant)
USB Driver Support	OS: Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, Linux Drivers: PPP QMI AT Console
RF	Primary, SISO DL (U.FL)

SIM

Type	Integrated Verizon SIM, external 3FF SIM slot
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APPROVALS

Regulatory Certifications	PTCRB, CE/RED, FCC, IC
Carrier	AT&T, Rogers (In-Progress), Telus, Verizon
Compliance	RoHS compliant

TEMPERATURE RANGE

Industrial Grade	-40°C to +85°C
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SUPPORT AND WARRANTY

1 Year standard warranty

PATENTS

US 9,838,066
US 9,497,570
US D731,491