



NimbeLink 4G LTE CAT 1 NA

Airgain, a global leader in embedded cellular modem technology and asset tracking solutions, has introduced the NimbeLink 4G LTE CAT 1 NA modem. This NimbeLink modem leverages Category 1 technology. The NL-SW-LTE-TC1NAG is ideal for delivering fast reliable cellular connectivity to products with applications in North America. The modem supports GNSS, dual SIMs, a single SKU for both AT&T / Verizon networks, integrated TCP/IP stacks, plus is AT&T's FirstNet (Band 14) capable.

The NL-SW-LTE-TC1NAG is pin-compatible with all other NimbeLink form factor modems. This offers the flexibility of being able to use multiple module vendors in one hardware design of your end product.

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

- Small form-factor
- 4G LTE Category 1 with 3G fallback
- U.FL Antenna ports for easy antenna integration
- Band 14 support – FirstNet on AT&T's network
- Dual SIM support with integrated solder down SIM and external 3FF SIM card slot
- GNSS support for GPS, Glonass, Beidou, Galileo, and QZSS
- Multi-Carrier Support on a Single Device

ADVANTAGES

- Longest Network Life
- CAT 1 LTE Speeds (Up to 10 Mb down/5 Mb up)
- Easily connect to Verizon or AT&T networks.
- Improved reception with RX diversity
- 8 Band LTE support
- Integrated GNSS support

PART NUMBER

	DESCRIPTION
NL-SW-LTE-TC1NAG	LTE CAT 1, North America, GNSS

TECHNICAL SPECIFICATIONS

TARGET REGION

North America

Compatible Carriers AT&T, Bell, Rogers, Telus, Verizon

CELLULAR TECHNOLOGY

LTE Category LTE CAT 1

LTE Frequency Bands FDD B2[1900], B4[1700], B5[850], B12[700], B13[700], B14[700], B66[1700], B71[600]

3G Technology Supported DC-HSPA+

3G Frequency Band B2[1900], B4[1700], B5[850]

2G Technology Supported N/A

2G Frequency Band N/A

DATA SPEEDS

Download Rate and Upload Rate
Download: LTE: 10 Mbps | HSPA+: 42.0 Mbps
Upload: LTE: 5 Mbps | HSPA+: 5.76 Mbps

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, FTP, SSL/TLS, SMTP, IPv4/IPv6, NITZ, PING, PPP Stacks

SMS SMS over IMS

LOCATION

GNSS GPS, Glonass, Beidou, Galileo, and QZSS

POWER SUPPLY

Supply Voltage 3.4V to 4.2V (3.8V nominal)

I/O Voltage 1.65V - 5.5V

Current Consumption	Average N/A Peak N/A Idle N/A Sleep N/A
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INTERFACES

Data Interface	UART, USB (USB 2.0 compliant)
USB Driver Support	OS: Windows 7/8/10 Linux Drivers: MBIM PPP RNDIS ECM QMI NMEA AT Console
RF	Primary (U.FL), Rx Diversity and MIMO DL 2x2 (U.FL)

SIM

Type	Integrated Verizon SIM, external 3FF slot
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APPROVALS

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

TEMPERATURE RANGE

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

1 Year standard warranty	
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