



NimbeLink 4G LTE CAT 4 NA

Airgain, a global leader in embedded cellular modem technology and asset tracking solutions, has introduced the NimbeLink 4G LTE CAT 4 NA modem. This NimbeLink modem leverages Category 4 technology. The NL-SW-LTE-TC4NAG 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-TC4NAG is pin compatible, designed to replace the NimbeLink CAT 3 modems, NL-SW-LTE-TNAG-X & NL-SW-LTE-TSVG-X, with a higher performance and lower cost 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 4 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 4 LTE Speeds (Up to 150 Mb down/50 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-TC4NAG	LTE CAT 4, North America, GNSS

TECHNICAL SPECIFICATIONS

TARGET REGION

North America

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

CELLULAR TECHNOLOGY

LTE Category LTE CAT 4

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: 150 Mbps | HSPA+: 42.0 Mbps
Upload: LTE: 50 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
---------------------	-----------------------------------------------

INTERFACES

Data Interface	UART, USB (USB 2.0 compliant)
USB Driver Support	OS: Windows 7 Windows 8 Windows 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
------	-------------------------------------------

APPROVALS

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

TEMPERATURE RANGE

Industrial Grade	-40°C to +85°C
------------------	----------------

SUPPORT AND WARRANTY

1 Year standard warranty

PATENTS

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