NimbeLink 4G LTE CAT 1

Airgain, a global leader in embedded cellular modem technology and asset tracking solutions, has introduced the patented NimbeLink LTE CAT 1 embedded modem based on the Gemalto LTE CAT 1 module. Like all modems in the NimbeLink family, the LTE CAT 1 modem is end-device certified and compatible with a variety of NimbeLink development kits, adapters, and microprocessor capes. This modem is designed for deployment within the U.S. on the Verizon LTE network.

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
- Lowest power LTE available today
- No carrier certification required
- NimbeLink interface
- Easy migration path, future-proof
- Approved for single antenna use
- 2 U.FL port provides antenna flexibility
- Development kits available

ADVANTAGES

- Approvals: FCC, Verizon ODI
- Onboard TLS stack
- 3FF Micro-SIM card slot
- Lower power than 2G, 3G, and 4G LTE CAT 3/4

PART NUMBER

	DESCRIPTION
NL-SW-LTE-GELS3	LTE CAT 1, Verizon

TECHNICAL SPECIFICATIONS

TARGET REGION

United States	
Compatible Carriers	Verizon

CELLULAR TECHNOLOGY

LTE Category	LTE CAT 1
LTE Frequency Bands	LTE B4 [1700], B13 [700]
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: LTE: 10 Mbps | Upload: LTE: 5 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	N/A

POWER SUPPLY

Supply Voltage	3.4V to 5.5V (3.8V nominal)
I/O Voltage	1.65V - 5.5V

Current Consumption	Average 135 mA	Peak 700 mA	Idle 48 mA	Sleep 8.6 mA

INTERFACES

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

SIM

Type	3FF SIM card slot

APPROVALS

Regulatory Certifications	FCC
Carrier Approvals	Verizon
Compliance	RoHS compliant

TEMPERATURE RANGE

Industrial Grade	-40°C to +85°C

SUPPORT AND WARRANTY

1 Year standard warranty