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