Skywire 4G LTE CAT 1

NimbeLink, a global leader in embedded cellular modem technology and asset tracking solutions, has introduced the patented Skywire® LTE CAT 1 embedded modem based on the Sierra Wireless module. Like all modems in the Skywire 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., and it enables Firmware-Over-The-Air (FOTA) management through Sierra Wireless AirVantage.

Features

- No carrier certification required
- Antenna independent
- USB and UART serial interfaces
- Small form-factor
- Skywire interface
- U.FL port for antenna flexibility
- RoHS Compliant

Advantages

- FCC Certified
- Longest Network Life
- Improved reception with RX diversity
- 3V-5V input
- Lower cost than LTE CAT 3-4 modems
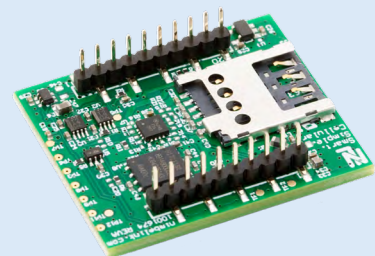- Supported Bands LTE B4, LTE B13

Part Number	Description
NL-SW-LTE-S7618RD	Skywire, LTE CAT 1, Verizon Based on Sierra Wireless AirePrime® HL7618RD Module

About The Skywire Family

Skywire cellular modems are designed to make cellular integration as fast and as easy as it can be. Exceptionally small, pin-compatible, and end-device certified, Skywire modems enable developers to quickly and reliably connect IoT products to cellular networks around the world. Skywire modems are backed by industry leading documentation and expert-level product support.

Technical Specifications (NL-SW-LTE-S7618RD)

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	Skywire 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, IPv4/IPv6, NITZ, PPP Stacks
SMS	SMS over IMS and SGs
Location	
GNSS	N/A
Power	
Supply Voltage	3V - 5.5V (3.8V nominal)
I/O Voltage	1.65V - 5.5V
Current Consumption	Average 177 mA | Peak 300 mA | Idle 54 mA | Sleep 24 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: MBIM | PPP | NCM | ACM | AT Console
RF	Primary (U.FL), Rx Diversity (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

About NimbeLink

NimbeLink is the world's most trusted partner for cellular solutions for the Industrial Internet of Things (IIoT). The Skywire® series of cellular embedded modems, enable dramatic reduction in development and time-to-market. NimbeLink also develops and markets complete, highly configurable edge-to-enterprise Asset-Tracking Solutions.

For more information, visit NimbeLink.com