NimbeLink®
an Airgain Company

Skywire 4G LTE CAT 1

The patented Skywire® 4G LTE CAT 1 modem is end-device certified with PTCRB, FCC, IC and AT&T carrier certified which enables fast and cost-effective development. And, like all Skywire's, this modem is deigned to be easy to integrate and accelerate time to market. All Skywire modems are available with data plans from Major North American carriers as well.

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

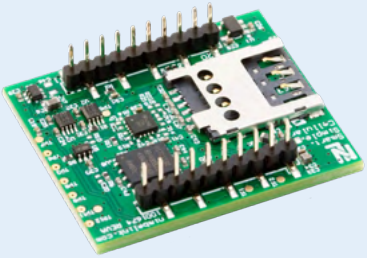
Advantages

- FCC & IC Certified
- Longest Network Life
- Improved reception with RX diversity
- 3V-5V input
- Lower cost than LTE CAT 3-4 modems

Part Number	Description
NL-SW-LTE-S7648	Skywire, LTE CAT 1, AT&T, T-Mobile, Based on Sierra Wireless AirPrime® HL7648 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-S7648)

Target Region	
	North America
Compatible Carriers	AT&T, Bell, Rogers, Telus, T-Mobile
Cellular Technology	
LTE Category	LTE CAT 1
LTE Frequency Bands	LTE B2 [1900], B4 [1700], B12 [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 SGs
Location	
GNSS	N/A
Power	
Supply Voltage	3V - 5.5V (3.8V nominal)
I/O Voltage	1.65V - 5.5V
Current Consumption	Average 135 mA | Peak 335 mA | Idle 35 mA | Sleep 18 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	PTCRB, FCC, IC
Carrier Approvals	AT&T, Rogers (In-Progress), Telus
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

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