

# Skywire 4G LTE CAT 4

NimbeLink's<sup>®</sup> patented end-device-certified Skywire<sup>®</sup> LTE CAT 4 embedded modem is available on both the Verizon and AT&T cellular networks and perfect for high-bandwidth applications. This modem offers the same ultra-small size and Skywire standard interface as other modems in the Skywire family. The CAT4 features a SIM card slot that will accommodate a SIM from either the Verizon or AT&T networks and features HSPA+ fallback.

Like other modems in the Skywire family, our 4G LTE CAT 4 modem is compatible with a variety of NimbeLink development kits and microprocessor shields, allowing fast, easy integration of cellular connectivity into new or existing products. Its standard interface simplifies migration to other cellular technologies, ensuring long product life. In addition Skywire modems end-device certification eliminates the considerable cost, time and risk of the certification process, driving your products to market faster.

## Features

- Small form-factor
- U.FL port for antenna flexibility
- Skywire interface
- 4G LTE CAT 4 with 3G HSPA+ fallback

## Advantages

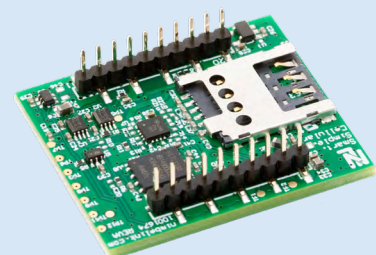
- FCC Certified
- Longest Network Life
- CAT 4 LTE Speeds (150 MB down/50 MB up)
- Improved reception with RX diversity
- 3V-5V input
- Penta-Band LTE and Dual-band UMTS



Part Number	Description
NL-SW-LTE-S7588-V	Skywire LTE CAT 4 Modem, Based on Sierra Wireless AirPrime <sup>®</sup> HL7588 Module (Verizon Model)
NL-SW-LTE-S7588-T	Skywire LTE CAT 4 Modem, Based on Sierra Wireless AirPrime <sup>®</sup> HL7588 Module (AT&T and others Model)

## 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-S7588)

<b>Target Region</b>	
	North America
Compatible Carriers	AT&T, Verizon
<b>Cellular Technology</b>	
LTE Category	LTE CAT 4
LTE Frequency Bands	LTE: B2 [1900], B4[1700], B5[850], B13[700], B17[700]
3G Technology Supported	HSPA+
3G Frequency Band	B2[1900], B5[850]
2G Technology Supported	N/A
2G Frequency Band	N/A
<b>Data Speeds</b>	
Download Rate and Upload Rate	Download: LTE: 150 Mbps   HSPA+: 42.2 Mbps Upload: LTE: 50 Mbps   HSPA+: 5.7 Mbps
<b>Hardware</b>	
Form Factor	Skywire Interface
Dimensions	29mm x 33mm x 10.5mm
Weight	8 grams
<b>Internet Protocols</b>	
Network Stack Support	Integrated TCP/IP, UDP/IP, HTTP, FTP, SSL/TLS, IPv4/IPv6, NITZ, PPP Stacks
SMS	SMS over IMS and SGs
<b>Location</b>	
GNSS	N/A
<b>Power</b>	
Supply Voltage	3V to 5.5V (3.8V nominal)
I/O Voltage	1.65V - 5.5V
Current Consumption	Average 66 mA   Peak 229 mA   Idle 14 mA   Sleep 11 mA
<b>Interfaces</b>	
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 and MIMO DL 2x2 (U.FL)
<b>SIM</b>	
Type	3FF SIM card slot
<b>Approvals</b>	
Regulatory Certifications	PTCRB, FCC, IC
Carrier Approvals	AT&T, Verizon
Compliance	RoHS compliant
<b>Temperature Range</b>	
Industrial Grade	-40°C to +85°C
<b>Support and Warranty</b>	
	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](http://NimbeLink.com)

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