

# Skywire 3G HSPA+

The Skywire<sup>®</sup> Embedded 3G GSM modem is a member of the Skywire family of plug-in cellular products. With bands that support EMEA, North America, South America and Asia, this modem is a globally deployable 3G GSM modem. Supports HSPA+ and includes a Micro-SIM card slot that can accommodate Micro-SIM form factor SIM cards from any carrier.

## Features

- Small form-factor
- 2 U.FL port for antenna diversity
- 1 U.FL for GPS & GLONASS
- Easy migration path, future-proof
- Skywire interface
- Development kits available
- Capable of 21 Mbps download / 5.7 Mbps upload speed

## Advantages

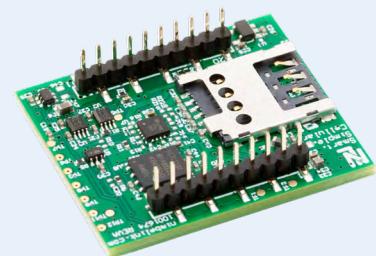
- Approvals: FCC, IC, GCF, PTCRB, AT&T
- RoHS compliant
- Supports GPS & GLONASS
- Migration path to new LTE categories
- Bundled data plans available



Part Number	Description
NL-SW-HSPA	Skywire, HSPA+, GPS, global connectivity

## 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-HSPA)

<b>Target Region</b>	
	Global
Compatible Carriers	AT&T, T-Mobile
<b>Cellular Technology</b>	
LTE Category	NA
LTE Frequency Bands	N/A
3G Technology Supported	UMTS, HSPA+
3G Frequency Band	B1[2100], B2[1900], B4[1700], B5[850], B8[900]
2G Technology Supported	GSM, EDGE, GPRS
2G Frequency Band	GSM850/900, DCS1800, PCS1900
<b>Data Speeds</b>	
Download Rate and Upload Rate	Download: HSPA+: 21.0 Mbps   EDGE: 296 Kbps   GPRS: 107 Kbps   Upload: HSPA+ 5.76 Mbps   EDGE: 236.8 Kbps   GPRS: 85.6 Kbps
<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/HTTPS, FTP, SSL/TLS, IPv4/IPv6, NITZ, PING, PPP Stacks
SMS	SMS over GPRS
<b>Location</b>	
GNSS	GPS, GLONASS
<b>Power</b>	
Supply Voltage	3.5V - 4.3V (3.8V nominal)
I/O Voltage	1.65V - 5.5V
Current Consumption	Average 110 mA   Peak 215 mA   Idle 19 mA   Sleep N/A
<b>Interfaces</b>	
Type	UART, USB (USB 2.0 compliant)
USB Driver Support	OS: Windows 7   Windows 8   Windows 10   Linux Drivers: PPP   NMEA   AT Console
RF	Primary (U.FL), Rx Diversity (U.FL)
<b>SIM</b>	
Type	3FF SIM card slot
<b>Approvals</b>	
Regulatory Certifications	GCF, PTCRB, CE/RED, FCC, IC, Anatel
Carrier Approvals	AT&T, Rogers, Telus
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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