

Skywire 2G 1xRTT

End-Device Certified Modem



Add robust cellular connectivity to your M2M devices without the cost, delay, and hassle of federal and carrier certifications. Extensive experience in designing and building embedded product solutions makes the NimbeLink Skywire™ end-device certified modems the smallest on the market. Its U.FL port ensures antenna flexibility. It complies with the popular Digi's XBee® interface standard and supports 1xRTT communication, minimizing costs of hardware and network access. And Verizon's commitment to the 1xRTT network helps ensure long product life.

The NimbeLink Skywire™ is available with bundled data plans from leading cellular carriers. The current version supports CDMA. Future additions to the product line will support GSM and LTE, and like the current CDMA product will let you quickly, easily, and economically incorporate fully-compliant cellular connectivity into devices without having to apply for certification.

Product Brief

Take the complexity out of designing cellular M2M solutions.

NimbeLink.
Smart. Simple. Cellular.

Part Numbers	Description
NL-SW-1xRTT-V	Skywire™, CDMA 1xRTT, Verizon
NL-SW-1xRTT-A	Skywire™, CDMA 1xRTT, AERIS

Features

- Industry smallest
- U.FL port for antenna flexibility
- Future-proof with Digi's XBee® form-factor
- Bundled Data Plans from Verizon

Technical Specifications

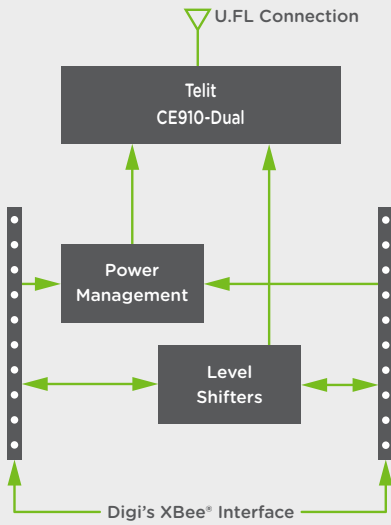
Power	Active call	750mA
	Normal	29mA
	Power saving	1.1mA
Input voltage	3.5V -4.3V	
I / O voltage	1.65V - 5.5V	
Temperature range	-40C to +85C	
Dimensions	29mm x 33mm x 6.5mm	

Advantages

- FCC & Verizon OD Certified
- Lowest cost 2G CDMA 1xRTT
- Migration path to GSM & LTE
- Bundled data plans available

Skywire™ Development Kit

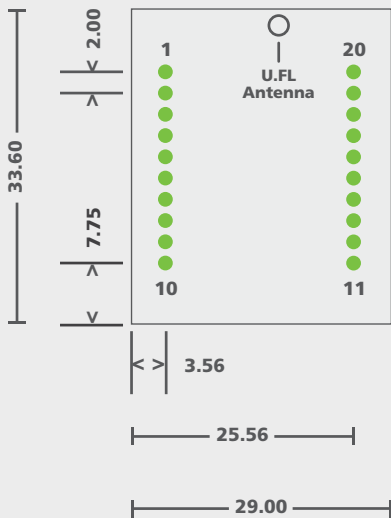
Block Diagram



The development kit includes one Skywire™ end-device certified modem, baseboard, antenna, power supply, debug cable, and cellular service plan. The kit enables you to develop your application directly on the Skywire™ embedded cellular modem with three different ways to connect:

- Connect your PC to the CE910-DUAL UART port via on-board USB-to-UART converter and send AT commands directly to the modem through PC terminal applications.
- The baseboard is an Arduino shield, so you can plug the module directly onto an Arduino microcontroller. (Kit includes sample sketches showing how to initialize the modem, make data connections, and send and receive SMS messages.)
- To connect the kit to a different processor or development kit, a 14-pin header breaks out the necessary signals for easy connection to any device. The modem supports I/O levels from 1.65-5.5V, simplifying connection to other systems.

Mechanical Drawing



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