

making **RF** the strongest link

# NL900S

## TELEMETRY APPLICATIONS

- Data Terminals
- Water Management
- Remote Data Loggers
- Oil & Gas Monitoring
- Irrigation Control Security Systems

## MOBILE APPLICATIONS

- Database Access
- Computer Aided Dispatch
- Vehicle Tracking
- Asset Tracking
- Fleet Management

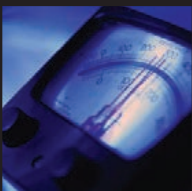
## APPLICATION IDEAS



*Oil and Gas  
Monitoring*



*Irrigation Control*



*Data Logging*



*Water Management*

# High Speed Industrial Wireless Modem



## PRODUCT OVERVIEW

The NL900S FHSS transceiver module is an effective, high-power solution for point-to-point and point-to-multipoint wireless systems in the 900 MHz ISM band. The RF output power of the NL900S can be set from 1 mW to 1 Watt, and the RF data rate can be set from 38.4 to 500 kb/s. The NL900S receiver includes a low-noise preamplifier protected by two SAW filters, providing an excellent combination of receiver sensitivity and out-of-band interference rejection. The NL900S provides the flexibility and versatility to serve applications ranging from cable replacements to sensor networks. The NL900S transceiver is easy to integrate and provides robust wireless communications up to 20 miles in line-of-sight installations using directional antennas.

These units implement a proprietary communication protocol to provide secure local data transmissions. Because it uses advanced Error Correction and FHSS technology, the data remains reliable over distances of up to 20 miles line-of-sight. Use of license-free frequency bands ensures that the NL900S is ready to use with no further certification requirements. Every unit is backed by a 30-day guarantee and full warranty with technical support.

## rfneulink

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Division of RF Industries

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## WIRELESS HIGHSPEED ETHERNET TRANSCEIVER

- Sophisticated Error Correction
- 128-bit AES Encryption
- RJ45, USB, DB-9 Serial Input
- TCP/IP – LAN Connection
- 38.4 to 500 kb/s Over-the-Air
- Wide Area Networking
- Mobile or Fixed Applications
- Supply Voltage 10-16 VDC
- Compact size 4.2" x 4.2" x 1.6"

## ORDERING INFO

Contact RF Neulink for details  
 Call toll-free (800) 233-1728 or  
 email: [rfneulink@rfindustries.com](mailto:rfneulink@rfindustries.com)

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## TECHNICAL SPECIFICATIONS

<b>Interface</b>	<b>NL900S</b>
Interface Connector.....	DB-9 Femal, RJ45, USB
RF Connector .....	RPSMA Jack
Impedance.....	50 Ohms unbalanced
Serial Interface Data .....	1200 bps to 115.2 kb/s
Power Consumption .....	180-1100 mA @ 12VDC
Channels .....	50
Supported Network Topologies .....	Point-to-Point, Point-to-Multipoint
Security.....	128-bit AES security

## Operational

Frequency Band .....	902–928 MHz (USA)
RF Data Rate (Over the Air) .....	38.4 to 500 kb/s
RF Technology .....	FHSS or DS
Spectrum or Direct	
Output Power.....	1000mW
Supply Voltage .....	10–16 VDC
Sensitivity @10 <sup>-5</sup> BER.....	-108 dbm typical @ 38.4 kb/s
Range, Line of Site .....	Up to 20 miles
Encryption .....	128 Bit AES

## Environmental

Temperature (Operating) .....	-30°C to +70°C
Temperature (Storage) .....	-40°C to +80°C
Humidity .....	90% non-condensing

## Physical

Dimensions .....	4.2" x 4.2" x 1.6"
Weight .....	8 oz

## Certifications

FCC Part 15.247  
 Industry Canada (IC)

RF Neulink reserves the right to change specifications of this product at any time without notice and without obligation to notify any person of such changes.

For outside operation of radio modem products, a NEMA 4 enclosure is recommended

## WHO IS RF NEULINK?



RF Neulink has been manufacturing radio link equipment for 30 years. Our line of transmitter and receiver units for point-to-point communications, paging excitors, radio data and control products reflect our experience in this marketplace.

Our publicly held parent company, RF Industries (NASDAQ symbol RFIL), provides a well capitalized base for continued future growth and product development. RF Neulink's customers include Fortune 500 companies, municipalities, government agencies, educational and health institutions, utilities, small companies, casinos, irrigation companies, armed forces here and abroad, and many others that need or want reliable, state of the art, cost effective communications links.