



RL1000 RADIO LINK

Features and Benefits

- RSA / 3DES / AES security standards
- 900 MHz spread spectrum radio
- Battery back-up system
- Fuse protection 120 AC and 12 DC
- Antenna feed line protection
- RF and cellular antennas
- Communicates with multiple RTU
- Point to point, multi point capability
- TCP/IP communication technology
- Seamless integration with existing systems and remote equipment
- Remotely programmable
- Status LED indicators
- Ruggedized

Applications

- Secure SCADA for power distribution automation
- Automated meter reading communications
- Remote security and surveillance
- Oil and gas wellhead and pipeline monitoring

The Natis Radio Link (RL1000) enables secure remote communication in areas where cellular and licensed radio frequencies are unavailable

The Natis Radio Link brings all of the security, features and functions of the Natis Secure Communications Platform to areas where cellular and licensed radio frequencies are unavailable.

Flexible Communications

The Radio Link can be placed at the outer edge of the cellular coverage where the 900MHz spread spectrum radio can extend the reach of the cellular network. By utilizing 900MHz spread spectrum radio technology, the Radio Link allows you to automate your network in areas where no cellular signal can be obtained.

The Radio Link along with the SCG has the ability to communicate with multiple RTU's or smart equipment. The 900MHz radio also features point-point and multi-point communications modes which allow the different pieces of remote equipment, connected via radio, to communicate directly with each other in a peer-to-peer network.

Simple Configuration and Installation

Configuration is web based, entirely menu-driven and very simple to use. Status LED indicators are provided for power, communications in and out, and wireless connectivity. The Radio Link enclosure can be mounted to a tower structure, a wood pole or a building as a lightweight version of a master station that would be installed on a mountain top.

Reliable

The RL1000 has an on-board battery management system that provides reliable DC power to keep your communication system up and running during extended circuit outages. The 12VDC battery back-up has 12AH capabilities. The Nema 4X rated enclosure provides a sealed and rain tight environment for safe reliable service.

***The most cost-effective, secure, reliable
remote communications solutions.***

RL1000 SPECIFICATIONS

GENERAL

- **Physical:** 17.5"x15.5"x6.5" Rated NEMA 4X
- **Power Supply:** Local 120 volts AC
Reverse polarity and surge protection
- **Battery Back-up:** 12 VDC @ 12 AH
- **Power Supply Connection:** 2 pin polarized locking plug
- **Current:** 450mA typical, 750mA max (@12VDC supply)
- **Serial Connection:** RS232, DB9M or DB9F
- **Operating Temperature:** -20° to +70° C for main processor (communications cards vary)
- **Humidity:** 10% - 90% (non-condensing)

Security

- RSA Key Exchange
- 3-DES encryption
- AES encryption

Wireless

- WiFi (802.11)
- CDMA 1X/EV-DO Verizon, others
- GSM, GPRS, EDGE, EGPRS: Cingular, T-Mobile, others
- Satellite: GlobalStar, others
- **Antenna Connection:** N-Female 50 Ohm
Optional multi-phase protection available
Optional coax RF transient protector

Wired

- Ethernet
- Fiber
- DSL
- Cable-modem
- Power-line carrier
- Dial-up

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