

DATASHEET

RadioLinx[®] Intelligent Cellular Serial Modem for the TELUS[®] Mobility Wireless CDMA Network RLXIC-ST

RadioLinx[®] Intelligent Cellular serial modems for Canada's TELUS[®] Mobility Wireless network provide wide area wireless connectivity for industrial serial devices.

Use the RLXIC-ST Serial Gateway for applications requiring serial connectivity on cellular carriers that use CDMA (Code Division Multiple Access) to provide service. Carriers using CDMA include TELUS in Canada.

The RLXIC-ST has a compact form factor, low power consumption, and is Class 1 Division 2 certified for hazardous locations. Applications include SCADA data transmission for oil and gas, water and wastewater, and electric utility automation. Additional mobile-to-mobile (M2M) capability supports applications such as remote equipment monitoring, management, and control.



Features	Benefits
Cellular Wide Area Wireless Networking	<ul style="list-style-type: none"> ◆ Leverage existing, secure cellular infrastructure and avoid need for expensive antenna & cable installations and / or new antenna towers ◆ Licensed frequencies and cellular technology limits interference common to unlicensed bands ◆ Utilize cellular network backhaul to bring data from geographically diverse locations through the internet to one or more locations
ALEOS™ Embedded Intelligence	<ul style="list-style-type: none"> ◆ Reliable, persistent network connectivity ◆ Real-time device status and health including network connectivity, throughput and signal strength ◆ Over-the-air device configuration and firmware updates
Integrated Industrial Protocol Support	<ul style="list-style-type: none"> ◆ Simple integration with serial industrial devices ◆ Standard configuration templates for Modbus and DF1 protocols included ◆ Two digital I/O ports enable exception based communications from remote equipment
Easy to Configure and Monitor	<ul style="list-style-type: none"> ◆ USB port simplifies configuration and troubleshooting ◆ AceManager utility for local or over-the-air device configuration, and diagnostics ◆ Configuration templates may be customized and copied to many devices

Configuration

RadioLinx Intelligent Cellular products are configured using the included AceManager device monitoring and configuration tool. AceManager supports remote, over-the-air device configuration and firmware updates. Remote diagnostics include network connectivity, throughput, and signal strength. An enterprise-grade application, AceNet, is available separately and enables one-to-many device configuration, management and logging of performance statistics.

Specifications

Radio

Cellular Technology	CDMA EV-DO Rev A with fall back to: <ul style="list-style-type: none">◆ CDMA 1x EV-DO Rev 0◆ CDMA 1xRTT◆ CDMA IS-95
Bands	800 MHz cellular 1900 MHz PCS
Typical Downlink Speeds	Up to 3.1 Mbps ¹
Typical Uplink Speeds	Up to 1.8 Mbps ¹

Dimensions & Interfaces

Size (Length x Width x Depth)	104 mm x 76 mm x 27 mm 4.1 inches x 3.0 inches x 1.1 inches
Weight	160 grams (5.6 oz)
Enclosure	Aluminum. DIN-rail mounting clip included
USB	2.0 (Mini-B5)
Antenna	SMA 50 Ohm
I/O Ports	RS232 DB9F Serial COM port 1 digital input (if special power cable is used) 1 digital output (if special power cable is used)
LED Indicators	Network, Signal, Activity, Power
Applications Interfaces	TCP/IP, UDP/IP, DHCP, HTTP, SNMP, SMTP, SMS, MSCI, Modbus, DF1, and more

Environmental & Power

Operating Temperature	-22°F to +158°F (-30°C to +70°C)
Storage Temperature	-40°F to + 185°F (-40°C to +85°C)
Relative Humidity	Up to 95% RH (with no condensation)
Restrained Cargo	ASTN D-4 169
Vibration	IEC 60068-2-6; 10 Hz to 150 Hz in each of three mutually perpendicular axes
Shock	IEC 60068-2-6; 20g in each of three mutually perpendicular axes
Electrostatic Discharge	EN301 489-1 Clause 9.3.2 and EN51000-4-2 Air Discharge (±2kV, ±4kV, ±6kV) Level 3 Contact Discharge (±2kV, ±4kV, ±6kV) Level 3 No disruption or permanent device damage.
Input Current	350 mA to 450 mA @ 12 Vdc
Idle Current	104 mA @ 12 Vdc
Input Voltage	9 Vdc to 28 Vdc

¹ Theoretical peak, actual throughput will depend on available network bandwidth and operating mode.

Agency Approvals & Certifications

Wireless Approvals

Visit our web site <http://www.prosoft-technology.com/content/view/full/5764> for current, detailed wireless approval information.

Hazardous Locations

Intertek ISA 12.12.01 Class I, Division 2, Groups A, B, C, D
C22.2 213-M1987



Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

For a complete list of products, visit our web site at:
www.prosoft-technology.com

Ordering Information

To order this product, please use the following:

RadioLinx® Intelligent Cellular Serial Modem for the TELUS Wireless CDMA Network

RLXIC-ST

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft Technology distributors near you, go to:
www.prosoft-technology.com
and select Distributors from the menu.

Place your order by email or fax to:

North American / Latin American / Asia Pacific
orders@prosoft-technology.com
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Specifications subject to change without notice.