ELECSYS™
A LINDSAY COMPANY

REDIGATE 100|400 SERIES
EDGE-OF-NETWORK GATEWAY FOR SCADA AND IIOT

VERSATILE, RUGGED, AND RELIABLE.

The RediGate series includes both a compact and full-featured Edge-of-Network Gateway, designed to simplify data management and improve operations. The RediGate series features a wide variety of communication options and protocols to support enterprise integration, provide cyber-security, enable efficient real-time data acquisition, and improve bandwidth management. This is ideal for conditions where constant communication with mission-critical applications is necessary, such as the oil and gas industry, electric power distribution, and utilities.

REDIGATE 100 | 400 SERIES

Key Features:

- Reduces data latency with report by exception protocols, such as MQTT, Sparkplug-B, and others.
- Data consolidation and conversion for many common SCADA and IIoT protocols.
- Flexible networking and security options (SSH, TLS, Firewall, port forwarding, VPN, and more)
- Programmable logic

APPLICATIONS

Real-time protocol conversion from field equipment to SCADA/EMS, including Ignition, AVEVA, GE, Siemens, and many others.

Enterprise and cloud integration for Industrial Internet of Things applications, with support for AWS, Azure, IBM, and others.

Managing redundant, secure communication channels for constant and reliable control networks.

Pass-through communication to field equipment for maintenance, programming, or direct data access.

Store and Forward, Data Logger, Peer to Peer communication, VPN, and other diverse applications.

AFFORDABLE DATA MANAGEMENT SOLUTION

The Elecsys RediGate series offers two different options, both of which are packed with configurable features. They offer benefits to the SCADA or IIoT engineer to easily support many different network architectures and field device communications.

Elecsys RediGate benefits:

- Configurable over the air or locally, allowing the system designer to easily adapt to a wide variety of applications.
- Data management and programming tools allow flexible handling of various enterprise data requirements.
- Simultaneously supports connections to multiple host systems, providing redundancy, assisting with migration during system upgrades, and segregating streams of data for different business needs.
- Designed for reliable operation in harsh environments, including industrial temperatures and Class 1 Division 2 hazardous locations.

MAJOR MARKETS

- OIL
- GAS
- WATER
- ELECTRICAL

PRODUCT SPECIFICATIONS

Model	RediGate 400E	RediGate 400C	RediGate 110C	RediGate 120C	RediGate 110E	RediGate 120E
Description	Base model	Base model + cellular modem	CAT-M1 Cellular to Serial Port	CAT-M1 Cellular to Ethernet	Ethernet to Serial Port	Two Ethernet Ports
Part Number	RG-400E-00-00	RG-400C-30-00 (Verizon, U.S.) RG-400C-40-00 (AT&T/Global)	RG-110C-30-00 (Verizon, U.S.) RG-110C-40-00 (AT&T/Global)	RG-120C-30-00 (Verizon, U.S.) RG-120C-40-00 (AT&T/Global)	RG-110E-00-00	RG-120E-00-00
Connections	(4) RJ-45 Ethernet (10/100 Mbps) (3) DB-9 RS-232 (one for local diagnostics) (1) DB-9 RS-485/422 (2) USB 2.0 (type A host ports)		DB-9 Serial (RS-232/485/422)	RJ-45 Ethernet (10/100 Mbps)	RJ-45 Ethernet (10/100 Mbps) DB-9 Serial (RS-232/485/422)	(2) RJ-45 Ethernet (10/100 Mbps)
Cellular	N/A	CAT-M1 cellular modem, SMA antenna connector			N/A	
GPS	N/A	MCX antenna connector	N/A			
Power	9.5-28 VDC (optional 120 VAC power adapter, part# 65-0077-00)					
	3.5 W nominal	4 W nominal	3.5 W nominal		2.5 W nominal	
Memory	256 MB dynamic RAM, 64 MB flash memory, removable 8 GB SD card		128 MB dynamic RAM, 64 MB flash memory, removable 8 GB SD card			
Operating Environment	Operating Temperature: -40 to +75 C Humidity: 0-95% non-condensing Hazardous Location: Class 1 Div 2					
Size	6.92" (17.58 cm), 6.78" (17.22 cm), H: 2.61" (6.63 cm)		4.88" (12.40cm), 2.90" (7.37 cm), 1.35" (3.43cm)			
Installation	Panel mount tabs, or DIN rail using supplied brackets					
I/O Expansion	Options for integrated digital and analog I/O, and (4) additional serial		N/A			

> A FULL TOOLKIT OF POWERFUL DATA AND NETWORK MANAGEMENT FEATURES.

Elecsys also offers middleware products for Modbus and OPC host platforms, to take advantage of MQTT architecture and optimized Report-by-Exception communication efficiency, maintaining compatibility with existing SCADA and other enterprise systems and providing a path forward to newer, more innovative business solutions.

To learn more, please visit us at elecsyscorp.com or call 913-647-0158

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