

elecsys REDIGATE 100-SERIES

Edge-of-Network Gateway

The RediGate is a ruggedized and intelligent Edge-of-Network Gateway configured in a compact footprint that allows companies to simplify data management and improve operations. The RediGate features a variety of communication options and protocols with built-in cyber security to enable efficient real-time data acquisition and improved bandwidth management. The RediGate series 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.



FEATURES



Reduce Data Latency

- Report by Exception
- Publish and Subscribe



Standardize Field Integration

- Protocol Conversion
- Flexible Migration Path
- Scalability
- Data Concentrator



Enhance Communication Reliability

- Cyber Security (TLS, IPsec, VPN, Firewall)
- Automatic Host Failover



Enterprise Integration

- Message Oriented Middleware (MOM)
- Supervisory Control and Data Acquisition (SCADA)
- Enterprise Resource Planning (ERP)
- Electronic Flow Measurement (EFM)
- BIG DATA Analytics

APPLICATIONS

- Edge-of-Network gateway
- Protocol Converter
- Terminal Server/Serial to IP converter (RediGate 110 series)
- Port Forwarding, Network Access Translation (RediGate 120 series)
- MQTT for Message Oriented Middleware
- Report-by-Exception, Publish/Subscribe, and Poll/Response data
- Industrial Internet of Things
- Data Security and Encryption
- Data Logger

SPECIFICATIONS








MODEL	RediGate 110c	RediGate 120c	RediGate 110e	RediGate 120e
Product Number	RG-110C-10-00 (CDMA/EVDO) RG-110C-22-00 (GSM/HSPA+)	RG-120C-10-00 (EVDO) RG-120C-01-00 (GSM/HSPA+)	RG-110E-00-00	RG-120E-00-00
Cellular	(1) SMA antenna jack	(1) SMA antenna jack	No	No
Serial	(1) RS232/RS485/RS422	No	(1) RS232/RS485/RS422	No
Ethernet	No	(1) 10/100 RJ-45	(1) 10/100 RJ-45	(2) 10/100 RJ-45
Storage	64MB flash memory, 256MB dynamic RAM, removable SD memory card			
Power	9.5-28 VDC Input (optional 120VAC power supply available) 3.5 W nominal		9.5-28 VDC Input (optional 120VAC power supply available) 2.5W nominal	
Operating Environment	Temperature: -40 to +75 C Humidity: 0-95% non-condensing Hazardous: Class 1 Div 2			
Host/IoT Software Solutions	Elecsys Connect, OPC Server, HCP2 (Modbus), Inductive Automation Ignition, IBM Bluemix, Microsoft Azure, and many others			
Size	H: 1.35" (3.43cm), W: 4.88" (12.40cm), L: 3.09" (7.85cm)			

The RediGate 110 and 120 products feature a comprehensive selection of industry standard and legacy communication protocols. The RediGate can gather data from almost any field device and route real-time data through enterprise data systems by utilizing either an Ethernet or cellular data connection. Combining our Advanced Configuration Environment (ACE) with one of the industry's best application programming environments (ISaGRAF), the RediGate can be easily programmed for most applications.

Utilizing its native MQTT communications protocol, the RediGate interfaces directly with message-oriented middleware, data brokers, new and legacy host systems, cloud hosted applications, and many other enterprise applications. Elecsys also offers an optional OPC Host Interface software package to integrate field data into an OPC environment.

MAJOR MARKETS

-  Oil
-  Gas
-  Electricity
-  Transportation
-  Agriculture

