

Graphite™ Module: J1939 Protocol

Red Lion Automation Series



▶▶▶ J1939 Protocol Communication

The GMJ1939 plug-in module expands the communication capabilities of our Graphite series HMI operator interface panels by seamlessly integrating with J1939 protocol networks.

Red Lion's GMJ1939 module provides easy Graphite HMI integration with J1939 protocol networks, and allows for translation of more than 300 different protocols. Configure the GMJ1939 module using Red Lion's Crimson® software, which makes setup simple using an intuitive graphical user interface with drag and drop functionality.



APPLICATIONS

- > Transportation
- > Agriculture
- > Manufacturing
- > Construction
- > Oil & Gas

PRODUCT HIGHLIGHTS

- > Seamless J1939 network integration
- > Support for over 300 different protocols
- > Provides all-in-one solution

FEATURES & BENEFITS

- > J1939 Protocol Conversion
 - Easily integrates Graphite HMIs into J1939 protocol networks
 - Converts between J1939 and more than 300 different protocols
- > All-in-One Solution
 - Removes need for external devices and communication gateways
 - Cost-effectively saves space, and time
- > -40° to 75°C Operating Temperature
 - Reliably works in harsh environments
- > Powered from Graphite Host
 - Simplifies deployment by eliminating external power requirement
- > Easily Programmed
 - Seamless configuration using Red Lion's Crimson desktop software

industrial

automation



▶▶▶ J1939 Protocol Communication Specifications

POWER

GMJ1939 Max Power: 1.2 W (supplied by Graphite host device)

COMMUNICATION PROPERTIES

J1939 Protocol Port:

- Software programmable up to 250K baud and digitally isolated
- 124 ohm, 1 W termination provided through switch
- Port may be configured for various J1939 protocols
- Isolation from Graphite Host
- 1000 VDC for 1 minute

CERTIFICATIONS AND COMPLIANCES

- CE Approved
- EN 61326-1 to Industrial Locations
- IEC/EN 61010-1
- RoHS Compliant

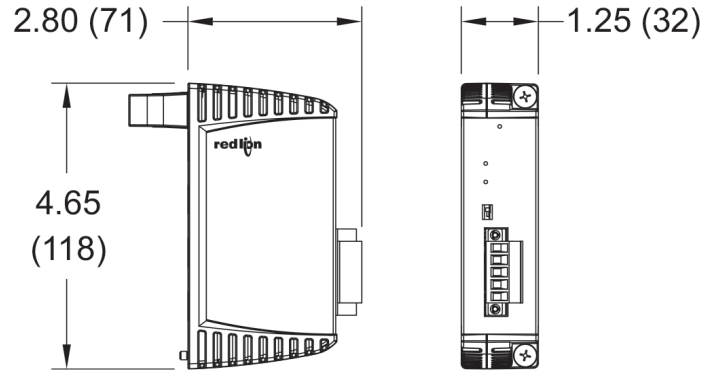
ENVIRONMENTAL

- Operating Temperature Range: -40° to +75°C
- Storage Temperature Range: -40° to +85°C
- Operating and Storage Humidity: 85% max relative humidity, non-condensing, from 0° to +50°C
- Altitude: Up to 2000 meters

ORDERING GUIDE

PART NUMBER	DESCRIPTION
GMJ19390	Graphite Module, J1939 Protocol Interface

DIMENSIONS *In inches (mm)*



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As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our award-winning technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. For more information, please visit www.redlion.net. Red Lion is a Spectris company.