

# Graphite<sup>®</sup> Module: CAN Protocol



## CAN Protocol Communication

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

Red Lion's GMCAN module provides easy Graphite HMI integration with CAN protocol networks, allowing for translation of more than 300 different protocols. Configure the GMCAN module using Red Lion's Crimson<sup>®</sup> software, which makes setup simple via an intuitive graphical user interface with drag-and-drop functionality.



### Applications

- Transportation
- Agriculture
- Manufacturing
- Construction
- Oil & gas

### Product Highlights

- Seamless CAN network integration
- Support for over 300 different protocols
- All-in-one solution

### Features & Benefits

- CAN Protocol Conversion
  - Easily integrates Graphite HMIs into CAN protocol networks
  - Converts between CAN 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 T<sub>AMB</sub> 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

# Graphite Module: CAN Protocol Ordering Guide and Specifications

## Ordering Guide

Part Number	Description
GMCAN000	Graphite Module, CAN Protocol Interface

## Module Specifications

### Power

Power will be supplied by the Graphite host device. Some modules, depending on usage may consume high levels of power. This may limit the total number of modules that can be installed on a single Graphite host. Check the Graphite module and Graphite host data sheets for specific usage and power requirements.

**GMCAN Max Power: 1.2 W**

### Communications

**CAN Protocol Port:** The CAN protocol port has format and baud rates that are software programmable up to 1M baud and is digitally isolated. 124 ohm, 1W termination is provided through a switch. This port may be configured for various CAN protocols.

**Isolation from GMCAN Communication ports to Graphite host device:** 1000 VDC for 1 minute.

### Environmental Conditions

Operating Temperature Range: -40 to +75 °C  $T_{AMB}$ , or lowest range among equipment used in your Graphite system. Consult the user manual or [www.redlion.net/OpTemp](http://www.redlion.net/OpTemp) for further details.

Storage Temperature Range: -40 to +85 °C  $T_{AMB}$

Operating and Storage Humidity: 85% max relative humidity, non-condensing

Altitude: Up to 2000 meters

### Certifications and Compliances

#### CE Approved

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

#### ATEX/UKEX Approved

Ⓜ II 3 G Ex nA IIC T4 Gc  
DEMKO 14 ATEX 1387X  
EN 60079-0, -11, -15, -31  
UL23UKEX2879X

#### IECEX Approved

Ex nA IIC T4 Gc  
IECEX UL 15.0035X  
IEC 60079-0, -11, -15, -31

#### India PESO Approved

A/P/HQ/MH/104/7441 (P549599)

#### UL Listed: File #E302106

#### UL Hazardous: File #E317425

#### ABS Type Approval for Shipboard Applications

### Construction

Case body is all metal construction.

### Connections

Removable wire clamp screw terminal block.  
Wire Gage: 28-14 AWG (0.32 mm - 1.63 mm) terminal gage wire.  
Torque: 1.95-2.21 inch-lbs (0.22 - 0.25 N-m)

### Mounting

Screws to host.

### Weight

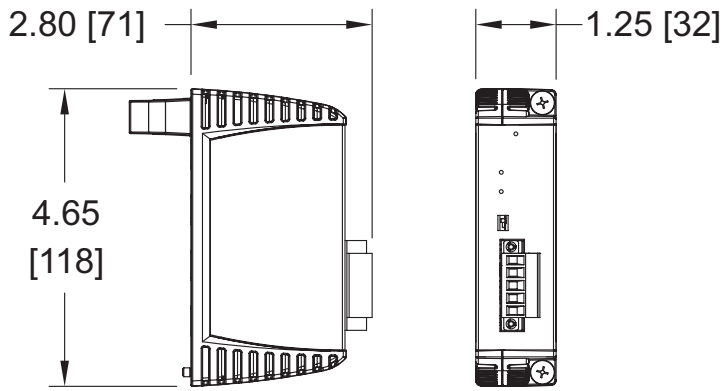
6.9 oz (196 g)

### Warranty

2 years on design and manufacturing defects.  
Specifications are subject to change.  
Visit [www.redlion.net](http://www.redlion.net) for more information.

# Graphite Module: CAN Protocol Dimensions

## Dimensions In inches [mm]





[www.redlion.net](http://www.redlion.net)  
[contact us](#)

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