

▶▶▶ DeviceNet Protocol Communication

The CMDN plug-in module expands the communication capabilities of our CR3000 HMI operator interface panels by seamlessly integrating with DeviceNet networks.

The CMDN DeviceNet communication module provides easy CR3000 HMI integration with DeviceNet protocol networks, allowing translation to more than 300 machine protocols. Now users can connect to all their existing DeviceNet equipment on the plant floor saving them costly upgrades. Configure the CMDN module using Red Lion's Crimson® software, which makes setup simple via an intuitive graphical user interface with drag-and-drop functionality.



APPLICATIONS

- > Automotive
- > Food & Beverage
- > Factory Automation
- > OEM Machine Builders
- > Water/Wastewater

PRODUCT HIGHLIGHTS

- > Seamless DeviceNet network integration
- > Communicates with any DeviceNet master
- > Support for over 300 machine protocols
- > All-in-one solution

FEATURES & BENEFITS

- > DeviceNet protocol conversion
 - Easily integrates CR3000 HMIs into DeviceNet protocol networks
 - Communicates with any DeviceNet master
 - Converts between DeviceNet and more than 300 machine protocols
- > All-in-one solution
 - Removes need for external devices and communication gateways
 - Cost-effectively saves space and time
- > -10 to 50 °C operating temperature
 - Reliably works in industrial environments
- > Powered from CR3000 HMI host
 - Simplifies deployment by eliminating external power
- > Easily Programmed
 - Seamless configuration using Red Lion's Crimson desktop software

▶▶▶ DeviceNet Protocol Communication Specifications

POWER

CMDN Max Power: 1.2 W (supplied by CR3000 HMI host device)

COMMUNICATION PROPERTIES

DeviceNet Protocol Port:

Software programmable up to 500 Kbaud and digitally isolated.

This port may be configured for various DeviceNet protocols.

Isolation from CR3000 HMI host device 1000 VDC for 1 minute

CERTIFICATIONS AND COMPLIANCES

Product Safety:

UL Safety - Class I, Division 2, Groups A, B, C, D , Class II,
Division 2, Groups F and G , Class III Hazardous Locations

CE Approved:

EN 61326-1 to Industrial Locations

IEC/EN 61010-1

RoHS Compliant

ENVIRONMENTAL

Operating Temperature Range: -10 to 50 °C

Storage Temperature Range: -40 to 80 °C

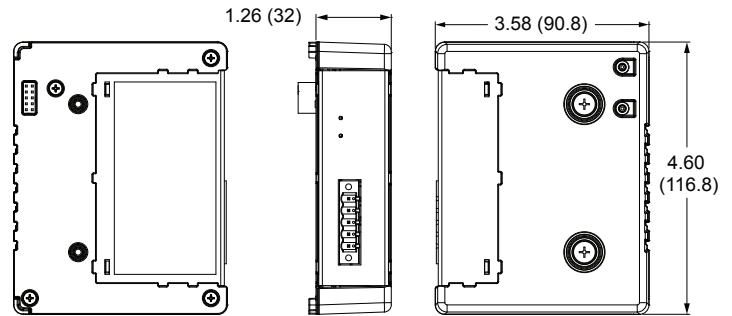
Operating and Storage Humidity: 85 % max relative humidity,
non-condensing, from 0 to 50 °C

Altitude: Up to 2000 meters

ORDERING GUIDE

PART NUMBER	DESCRIPTION
CRM000CMDN000000	CR3000 HMI Module, DeviceNet Protocol Interface

DIMENSIONS *In inches (mm)*



www.redlion.net

Connect. Monitor. Control.

Americas
sales@redlion.net

Asia-Pacific
asia@redlion.net

Europe
Middle East
Africa
europe@redlion.net

+1 (717) 767-6511

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 automation, Ethernet and cellular M2M 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. Red Lion is part of Spectris plc, the productivity-enhancing instrumentation and controls company. For more information, please visit www.redlion.net.

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