



Isolation Module

Solution for isolating power and serial data ground connections



Module provides isolation for power (+12 VDC output at up to 1.0 A) plus two optically isolated serial communications channels.

The RailComm® Isolation Module provides a low cost solution for isolating power and serial communication ground connections.

The module supplies an isolated +12VDC output at up to 1.0 A that can be used to power a data radio or other serial communication device. The module is an effective solution for

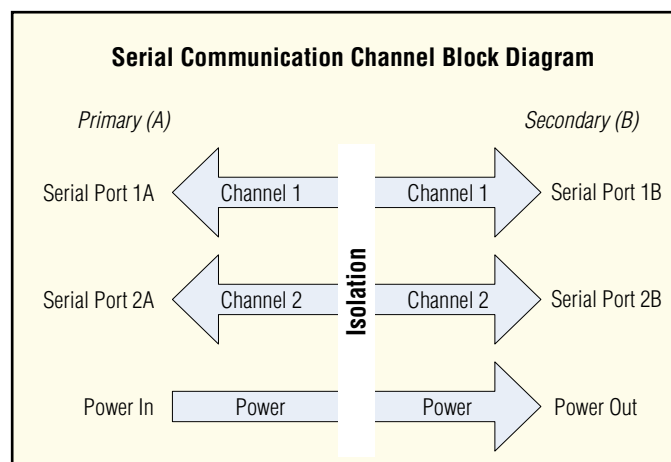
At A Glance

- ✓ Module provides an isolated +12 VDC output at up to 1.0 A to power a data radio or other serial devices.
- ✓ Offers two optically isolated serial communications channels.
- ✓ Each channel can be configured independently for RS232 (single-ended) or RS422 (differential) communications
- ✓ Wall or panel-mountable

creating isolation between two ground systems and eliminating ground faults.

Serial Communications

The Isolation Module provides two optically isolated serial communication channels. Each serial communication channel can be independently configured for RS232 or RS422 standard serial



The RailComm Isolation Module supports RS232 or RS422 serial data communications on its Primary (A) and Secondary (B) ports. Each port is independently configured through a DIP selector switch. Power and serial port connections are made through Euro-style pluggable terminal blocks.

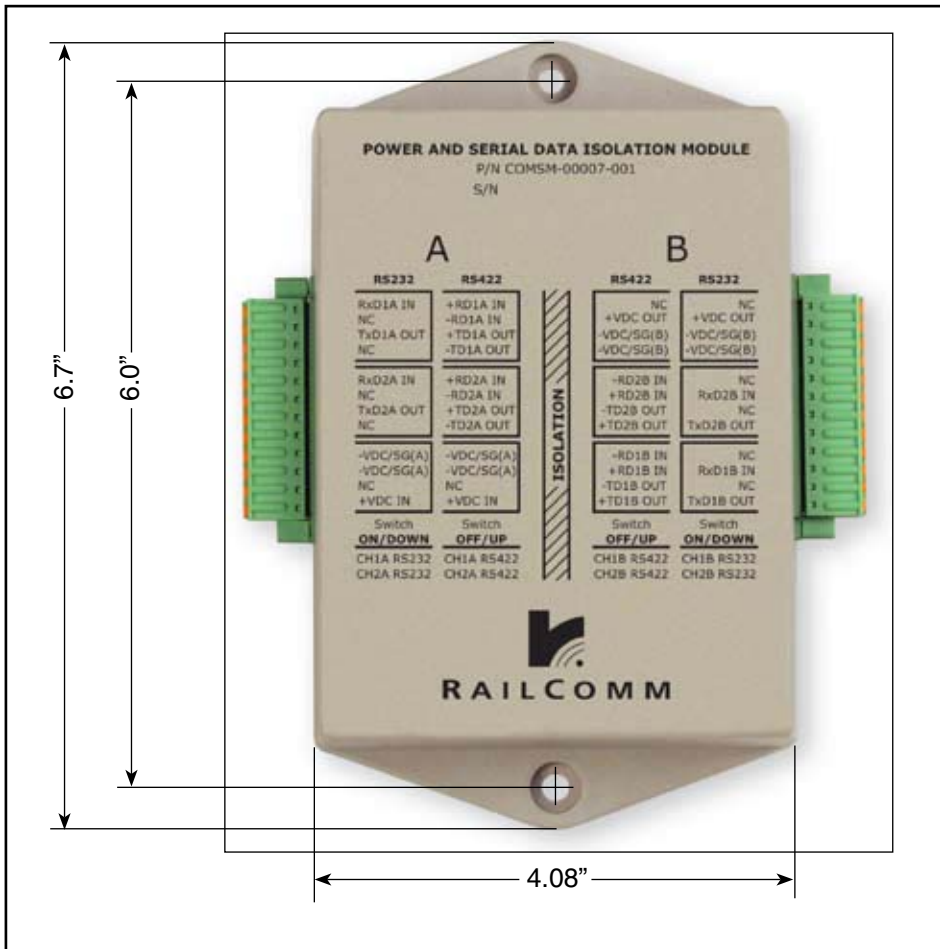


RAILCOMM
Control Anything Anywhere™

RailComm, Inc.
1387 Fairport Road, Box 8
Fairport, NY 14450-0008

Toll Free: 877-724-5266
(877-RAILCOMM)

www.railcomm.com



Environmental

Condition Operating Limits
 Temperature: -40°C to $+85^{\circ}\text{C}$
 Humidity: 5% to 95% (Non-condensing)

Communications

Serial Protocols: RS-232, RS-422
 Handshaking: Each of the Primary (A) or Secondary (B)
 Ports can support RTS/CTS hardware handshaking
 Data Rate Up to 57600 Baud
 Input-Output Isolation: >1500 Vrms

data communications.

In addition, the Primary (A) Port and Secondary (B) Port serial connections for each channel can also be independently configured for RS232 or RS422 operation. This provides an RS232 to RS422 converter capability on both serial channels.

The RailComm Isolation Module is housed in a wall or panel-mountable enclosure that can be located indoors or within an environmentally protected case.

Specifications

Physical

Enclosure Dimensions:
 $6.70''$ (h) x $4.08''$ (w) x $1.25''$ (d)

Power

Input Voltage: 9 – 30 VDC
 Max Input Power (No Load): 2 W
 Max Output Current (Load):
 1.0 ADC
 Input-Output Isolation: 1500 VDC



RAILCOMM
 Control Anything Anywhere™

RailComm, Inc.
 1387 Fairport Road, Box 8
 Fairport, NY 14450-0008

Toll Free: 877-724-5266
 (877-RAILCOMM)

www.railcomm.com

RailComm is a registered trademark of RailComm Inc.
 Copyright © 2006. RailComm, Inc.