

RIM100G

Remote Monitoring Module for RS-232
and RS-485 Communications

Allowing for Remote Monitoring and
Diagnostics of Networked Systems over a
GSM / GPRS Connection.



Overview

The RIM100G, Remote Monitoring Module, has been developed by Instance Global – Managing Data Xchange S.L. to facilitate the Monitoring, Interrogation and Diagnostics of RS-232 and RS-485 networks.

A USB Port allows for module configuration using the RIM100 Configuration Utility.

A high-performance GSM / GPRS serial interface with data rates of 14.4Kbps to 57.6 Kbps allows for the connection to single or multiple servers having a secure connection with password authentication.

The RIM100G Module has two RS-485 ports and one RS-232 port.

Port A: Bi-directional RS-485 port used for the interrogation of the Instance Global DNA Modules using IView, the Instance Global Graphical User Interface.

Port B: Receive only RS-485 port used for the monitoring of RS-485 communication networks.

Port C: Receive only RS-232 port used for the monitoring of RS-232 communications.

Features

- Simple LED status indication
- Easily configurable using the RIM100 Configuration Utility
- Support for the Remote use of IView – the Instance Global Graphical User Interface for system Monitoring, Diagnostics and Reporting.
- Wireless Connectivity for remote monitoring using a GSM / GPRS communication connection
- Network Data Rates of 14.4Kbps to 57.6Kbps
- Network Protocols: TCP, UDP, DNS, Https Client
- Supports the option to be configured as a Transparent Serial Link
- Serial Port Communication Baud rate selectable from 9600 - 115200 bits/sec
- RS-485 Ports have Selectable, Fixed Bus Terminations
- DIN rail mounting

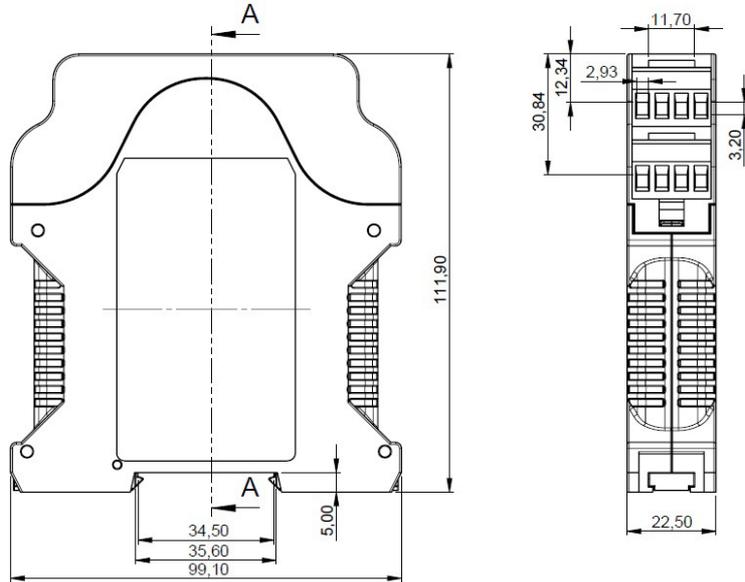


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Specifications

Dimension Diagram

Dimensions: 99.1 X 111.9 X 22.5mm
 Weight: 200g
 Mounting: DIN Rail



Power

Operating Voltages: 18V – 36V (24V Nominal)
 Rated Current: 150mA (at 24V)

Interfaces

RS-485: Port A: Bi-directional Communications, Selectable Fixed Termination (120Ω)
 Port B: Receive Only Communications, Selectable Fixed Termination (120Ω)
 Baud Rate: 9600 to 115200 (selectable / configurable)

RS-232: Port C: Receive Only Communications
 Baud Rate: 9600 to 115200 (selectable / configurable)

Network: GSM / GPRS Communications
 Speed: 14.4Kbps to 57.6 Kbps (selectable / configurable)
 Standard Frequency: 850 / 900 / 1800 / 1900MHz

USB: USB Micro-B connection (Device / Slave Mode)

Temperature

Operating: -10 to 50°C
 Storage: -40 to 70°C

Agency Approvals and Standards

CE, RoHs, WEEE compliant

EMC: EN 61000-6-2, Immunity Standard (Industrial Environments)
 EN 61000-6-4, Emission Standard (Industrial Environments)

Safety: EN 60950, IT Equipment



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