

# RML100



## Rack-Mounted Industrial Modem System

### Description

The RML100 Rack-Mounted Industrial Modem System allows efficient organization of a large number of communication channels at a single site with a single power supply. Use of system channel cards extends RS-232 communications distances to miles without expensive low capacitance cabling. RML100 also protects equipment from lightning and power surges and breaks ground loops. It is an ideal system for use in industrial and institutional local area networks.

The RML100 system consists of three different limited distance modem communications cards, two power supply cards, and two backplane/card cages, all configured to the spacesaving VME 3U (5.25") form factor. Each RML100 card contains two modem channels, optically isolated and surge protected to 300V. They include LED diagnostic indicators and null modem and loopback switches.

### ► Features

- Up to 28 Data Channels Powered From a Single Supply
- Optical Isolation: 500V Surge, 300V Continuous
- Null Modem and Loopback Switches
- Diagnostic LEDs
- Integrates with Discrete LDMs for Distributed Systems
- Screw Terminal or Modular Phone Jack Connections
- Extended Distances, E.G. 12 Miles/1200 Baud (RML070)
- CE Compliant

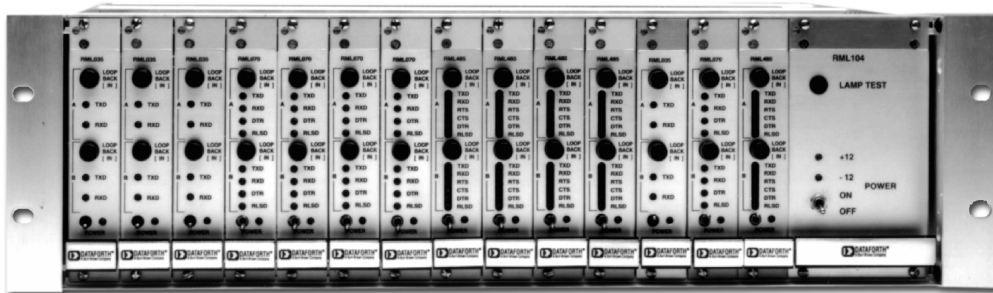


Figure 1: RML100, 101 Card Cage with Single Power Supply

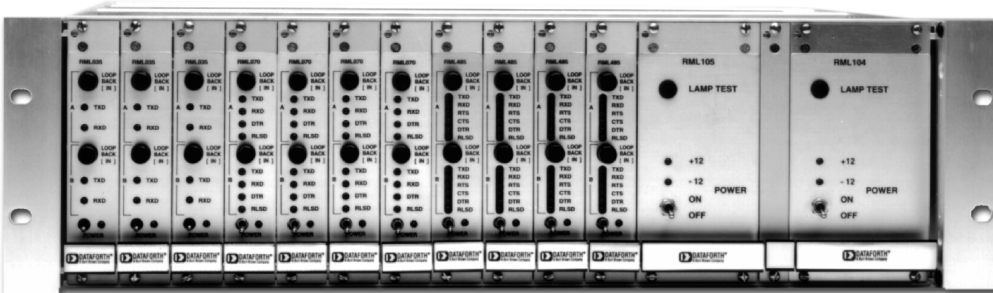


Figure 2: RML100-R, 101-R Card Cage with Redundant Power Supplies

## Specifications

Communications Cards	RML035	RML070	RML485
Baud rate range Baud/Distance mi. (km)	0 – 19.2K 19.2K/0.5 (0.8), 1.2K/7 (11.3)	0 – 57.6K 19.2K/1 (0.6), 1.2K/12 (19.3)	0 – 57.6K 19.2K/3 (4.8), 2.4K/8 (12.9)
Isolation	Optical/500V	Optical/500V, Transformer/300V	Optical/500V, Transformer/300V
Modes	4-wire full duplex, 2-wire simplex, loopback	4-wire full duplex, 2-wire simplex, loopback	4-wire full duplex, 2-wire half duplex, simplex, multidrop, loopback
Channel lines <sup>(1)</sup> Control lines <sup>(1)</sup>	TD, RD	TD, RD DTR, RLSD	TD, RD, RTS, CTS RTS, CTS, DTR, DSR, RLSD
Dimensions	9" x 4" x 1" (228.6mm x 101.6mm x 25.4mm)	9" x 4" x 1" (228.6mm x 101.6mm x 25.4mm)	9" x 4" x 1" (228.6mm x 101.6mm x 25.4mm)

Power Supply Cards	RML104 and RML105
Input Voltage Input Frequency	100 – 250VAC 47 – 63Hz
Output Voltage/Current Output1 Output 2	+12VDC/4.0ADC -12VDC/3.5ADC
Load/Line regulation (max) Output 1 Output 2	1.0/0.1% 5.0/0.5%
Environmental: Operating Temperature Range Storage Temperature Range Relative Humidity	-0°C to +50°C -40°C to +85°C 0-95% non-condensing
Dimensions	9" x 4.4" x 2.8" (228.6mm x 111.8mm x 71.1mm)

## Ordering Information

Model	Description
RML035	2 LDM35 Channels
RML070	2 LDM70 Channels
RML485	2 LDM485 Channels
RML104	System Power Supply
RML105	Redundant Power Supply
RML100	Card Cage/Backplane with Screw Terminals/ RML104 System Power Supply
RML100-R	RML100 + RML105 Redundant Power Supply
RML101	Card Cage/Backplane with Modular Phone Jacks/ RML104 System Power Supply
RML101-R	RML101 + RML105 Redundant Power Supply

### NOTES:

(1) TD = Transmit Data, RD = Receive Data, RTS = Request To Send, CTS = Clear To Send, DTR = Data Terminal Ready, DSR = Data Set Ready, RLSD = Received Line Signal Detect.