

DeviceMaster® DM-2302

Part Number: 99560-9



KEY FEATURES AND BENEFITS

- DIN rail mounting
- Wide DC input voltage range (6-30 volts)
- Redundant power input for fail-safe power
- Wide operating temperature range (-40° to 75°C)
- 2 serial ports (RS-232/422/485)
- DB9 male serial connectors
- Screw terminal power connector
- Dual Ethernet ports for daisy-chaining devices
- 25KV surge protection for serial ports
- Microsoft certified Windows XP/Server 2003/Vista Drivers
- NEMA TS2 compliant
- RoHS2 compliant under CE
- IPV6 support

PRODUCT DESCRIPTION

The DeviceMaster DM-2302 can be used to network-enable two serial devices on any Ethernet network and are ideal for applications in:

- Traffic and Transportation
- Power Utility
- Industrial Automation
- Material Handling
- Any project that requires serial-to-Ethernet communication with DIN rail-based equipment installations

The DeviceMaster DM-2302 DIN-rail mounting and screw terminal power connections for convenient installation. It offers both wide DC input voltage range (6-30 volts) and wide

operating temperature range (-40° to 75°C), so it operates reliably in a variety of challenging physical environments. It provides redundant DC power input for fail-safe power.

The DeviceMaster DM-2302 is National Electrical Manufacturers Association (NEMA) TS2 compliant. And with 2 Ethernet ports you can daisy-chain or cascade devices together for a cleaner layout, a faster installation and a more cost-effective solution (no need for multiple Ethernet switches or star topology layouts).

The DeviceMaster DM-2302 supports RS-232, RS-422 and RS-485 serial communications at standard baud rates from 300bps to 230Kbps. The DeviceMaster DM-2302 includes a network switch to provide two 10/100 Ethernet connections.

DEVICEMASTER SPECIFICATIONS

HARDWARE

Bus Interface Specification

10/100BASE-T

Memory

SDRAM 8 MB
Flash 4 MB

Enclosure

UL94-V0 Plastic

Installation Method

DIN Rail (35mm)

LED Indicators

Ethernet ACTIVITY, Ethernet LINK and STATUS

Enclosure Dimensions

4.6" x 3.9" x 1.8"
11.68 x 9.91 x 4.57 cm

Product Weight

6.5 oz
184.27 g

ELECTRICAL SPECIFICATIONS

DC Input Voltage

6-30 V

Current Consumption at +24 VDC

85 mA

Power Consumption (max)

2.0W

Power Input Redundancy

Dual Redundant Power Input

ESD Surge Protection

Provides minimum of 25KV protection for all serial lines. All Ethernet components are rated to 1.5KV magnetic surge protection.

ENVIRONMENTAL SPECIFICATIONS

Air Temperature

System On -40° to 75°C
System Off -40° to 85°C

Operating Humidity (Non-Condensing)

5% to 95%

Altitude

0 to 10000 Feet
0 to 3,048 m

Heat Output

6.8 BTU/Hr

Mean time between failures

49.5 years

SERIAL COMMUNICATIONS

Connector Type

DB9 Male

Number of Ports

2

Interface Standard

RS-232, RS-422, RS-485 2-wire, RS-485 4-wire

Baud Rates

300 bps to 230.4 Kbps

Transmit Buffer

256bytes

Recieve Buffer

1024bytes

Data Bits

7 or 8

Parity

odd, even, or none

Stop Bits

1 or 2

Flow Control

Hardware, Software, None

ETHERNET SPECIFICATIONS

Network Protocols

ARP, BOOTP, DHCP, HTTP, ICMP, Ping, RARP, RFC 1006, (ISO over TCP), RFC 2217, SNMP (MIB-II), TCP/IP, Telnet, TFTP, and UDP socket services, Supports IP multicast data transmission

Connector Type

(2) RJ45F Auto MDI/MDI-X

EXPORT INFORMATION

Packaged Shipping Weight

1.1 lbs
0.5 kg

Package Dimensions

9.25" x 2.5" x 7.25"
23.5 x 6.35 x 18.42 cm

UPC Code

7-56727-99560-9

Country of Origin

USA

ECCN

5A992

Schedule B Number

8471.80.1000

DEVICE DRIVERS

Linux

Microsoft® Windows® XP through Windows 10

FEATURES

SNMP Support Monitoring Only

REGULATORY STANDARDS

Emissions

CANADIAN EMC REQUIREMENTS
ICES-003
European Standard EN55022
FCC PART 15 SUBPART B
CLASS A LIMIT
AS/NZS CISPR 22

Immunity

European Standard EN55024
IEC 1000-4-2/EN61000-4-2: ESD
IEC 1000-4-3/EN61000-4-3: RF
IEC 1000-4-4/EN61000-4-4: Fast Transient
IEC 1000-4-5/EN61000-4-5: Surge
IEC 1000-4-6/EN61000-4-6: Conducted Disturbance
IEC 1000-4-8/EN61000-4-8: Magnetic Field
IEC 1000-4-11/EN61000-4-11: Dips and Voltage Variations

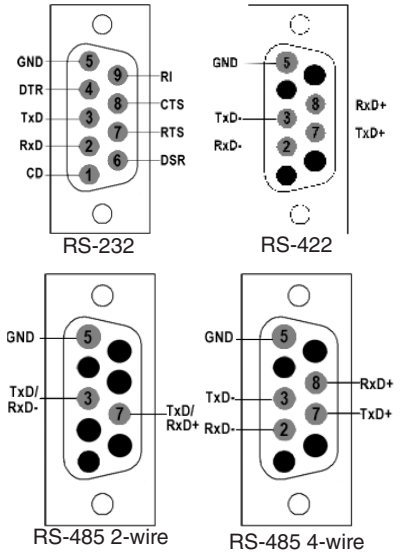
Safety

IEC 60950/EN60950 (Recognized)
CSA C22.2 No. 60950/UL60950 Third Edition
European Standard: RoHS2 compliant under CE
NEMA TS2 Compliant

REGULATORY APPROVALS



PIN ASSIGNMENTS



Warranty Information

Control offers a 30-day satisfaction guarantee and 5-year limited warranty.

Sales Support

+1.763.957.6000
sales@comtrol.com

Technical Support

+1.763.957.6000
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Email, FTP, and Web Support

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