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DeviceMaster® DM-2102

Part Number: 99550-0

KEY FEATURES AND BENEFITS

- DIN rail mounting
- Wide DC input voltage range (5-30 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
- 25KV surge protection for serial ports
- Microsoft certified Windows XP/Server 2003/Vista Drivers
- NEMA TS2 compliant
- RoHS2 compliant under CE
- IPV6 support

NEMA TS2

EXTENDED TEMPERATURE RATINGS

iPORTVISION DX MANAGEMENT SOFTWARE

MADE IN USA

PRODUCT DESCRIPTION

The DeviceMaster DM-2102 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-2102 includes DIN-rail mounting and screw terminal power connections for convenient installation. It offers both wide DC input voltage range (5-30 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-2102 is National Electrical Manufacturers Association (NEMA) TS2 compliant. It supports RS-232, RS-422 and RS-485 serial communications at standard baud rates from 300bps to 230Kbps. The DeviceMaster DM-2102 offers two DB9M serial connections with a 10/100 Ethernet connection to the network.

Your automation, our passion.

DEVICEMASTER SPECIFICATIONS

HARDWARE

Bus Interface Specification
10/100BASE-T Ethernet

Memory
SDRAM	32 MB
Flash	8 MB

Enclosure   UL94-V0 Plastic
Installation Method   DIN Rail (35mm)
LED Indicators
Status, Ethernet Port Link and Activity
Enclosure Dimensions
4.6" x 3.9" x 0.9"
116.8mm x 99.1mm x 22.9mm
Product Weight
0.30 lbs
136 g

ELECTRICAL SPECIFICATIONS

DC Input Voltage   5-30 V
Power Consumption (max)   2.9 Watts
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)
0% to 95%
Altitude   0 to 10000 Feet
0 to 3,048 m
Mean time between failures   46.3 years

SERIAL COMMUNICATIONS

Connector Type   DB9 Male
Number of Ports   2
Interface Standard
RS-232
RS-422
RS-485, 4-wire, Master
RS-485, 4-wire, Slave
RS-485. 2-wire
Baud Rates   300 bps to 230.4 Kbps
Recieve Buffer   4.5 KB
Transmit Buffer   4.5 KB
Data Bits   5, 6, 7 or 8
Parity
Odd, Even, Mark, Space, or none
Stop Bits   1, 1.5 or 2
Flow Control
Hardware, Software, None

* Data bits 5, 6: Supported only in RFC2217 and socket mode
* Mark, Space parity: Supported only in RFC2217 and socket mode
* Stop bit 1.5: Supported only when used with 5 data bits

ETHERNET SPECIFICATIONS

Number of Ports   1
Speed   10/100Mbps
Connector Type
RJ45F Auto MDI/MDI-X
LED
Ethernet Link (Green)
Ethernet Activity (Amber)
Ethernet specific features
Auto MDI/MDI-X, Auto Negotiation, Link/Activity Status LED

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

FEATURES

SNMP Support   Monitoring only
Other Software Features
Lowest Latency
NS-Link COM/TTY port redirector
TCP/IP & UDP Socket Services
Telnet/RFC2217 COM Port control
PortVision DX remote management
Manufacturer's Warranty   5 Years

EXPORT INFORMATION

Packaged Shipping Weight
0.70 lbs
317.5 g
Package Dimensions
5-11/16" x 5-11/16" x 3-3/8"
144.5 x 144.5 x 85.7mm
UPC Code
7-56727-99550-0
Country of Origin   USA
ECCN   5A992
Schedule B Number
8471.80.1000

DEVICE DRIVERS
Linux
Microsoft® Windows® XP through Windows 10

REGULATORY STANDARDS

Emissions
FCC Part 15 Subpart B
Class A limit
Canadian EMC Requirements
ICES-003
European Standard EN61000-6-4
International Standard IEC 61000-6-4
European Standard EN55032
AS/NZS CISPR 32
Immunity
European Standard EN61000-6-2
International Standard IEC 61000-6-2
European Standard EN55024:
IEC1000-4-2/EN61000-4-2: ESD
IEC1000-4-3/EN61000-4-3: RF
IEC1000-4-4/EN61000-4-4: Fast Transient/ Burst
IEC1000-4-5/EN61000-4-5: Surge
IEC1000-4-6/EN61000-4-6: Conducted Disturbance
IEC1000-4-8/EN61000-4-8: Magnetic Field
IEC1000-4-11/EN61000-4-11: Voltage Dips and Voltage Variations
Safety
UL 61010-1, UL 61010-2-201
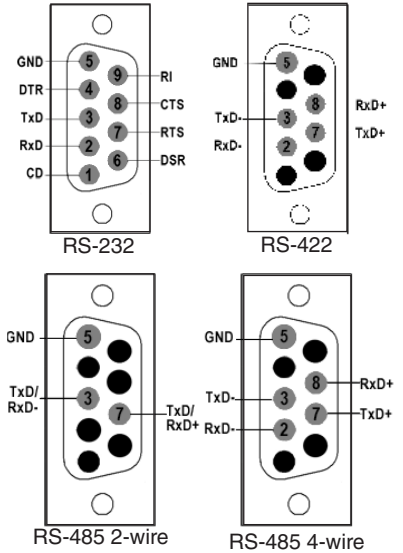CSA C22.2 No. 61010-1-12
CSA C22.2 No. 61010-2-201:14
Other
European Standard: 2002/95/EC Directive (RoHS)
NEMA TS2 Compliant

REGULATORY APPROVALS

CE   c(UL)us   FC   NEMA TS2

PIN ASSIGNMENTS

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

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