



DeviceMaster® DM-2101

Part Number: 99600-2



KEY FEATURES AND BENEFITS

- Wide DC input voltage range (6-30 volts)
- Redundant power input for fail-safe power
- Wide operating temperature range (-40° to 75°C)
- RS-232/422/485 software selectable interfaces
- PortVision DX
- DB9 male serial connectors
- Wide input power range
- Screw terminal power connector
- 25KV surge protection for serial ports
- Features DIN rail mounting
- SSL & SSH management, SSL serial data stream encryption
- IPv6 support
- Real-time email event notification

PRODUCT DESCRIPTION

The DeviceMaster RTS 1-Port DB9 1E is the newest models in Control's popular line of DeviceMaster serial device servers. These products 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 RTS DB9 1-Port includes 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 (-37° to 74°C), so it operates reliably in a variety of challenging physical environments. It provides redundant DC power input for fail-safe power.

The DeviceMaster RTS DB9 1-Port is National Electrical Manufacturers Association (NEMA) TS2 compliant.

The DeviceMaster RTS supports RS-232, RS-422 and RS-485 serial communications at standard baud rates from 300bps to 230Kbps. The DeviceMaster RTS 1-Port 1E offers one DB9 serial connections with a 10/100 Ethernet connection to the network, while the 1-Port 1E includes a network switch to provide two 10/100 Ethernet connections.



DEVICEMASTER SPECIFICATIONS

HARDWARE

Bus Interface Specification

10/100 BASE-T Ethernet

Memory

32MB SDRAM, 8MB Flash

Enclosure

UL94-V0 Plastic

Installation Method

DIN rail (35mm)

LED Indicators

Status, Ethernet Port Link/Activity

Dimensions

4.52" x 3.9" x 0.9"
114.81mm x 99.1mm x 22.86 mm

Product Weight

0.25lbs
113.4g

ELECTRICAL SPECIFICATIONS

Input Voltage Requirements

5-30VDC

Power Consumption (Max.)

1.5 Watts

Power Input Redundancy

Dual Redundant Power Input

ESD Surge Protection

Provides minimum of 25KV protection on 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

0% to 95%

Altitude

0 to 10,000 Ft
0 to 3,048 m

Mean time between failures

61.4 Years

SERIAL COMMUNICATIONS

Connector Type

DB9M

Number of Ports

1

Software Interfaces

RS-232

RS-422

RS-485, 4-wire, Master

RS-485, 4-wire, Slave

RS-485, 2-wire

Termination Resistor for RS422/485

Software controllable 120Ω termination resistors available for each transmit and receive differential pair on every port. The 120Ω termination resistors can be enabled between TX+ and TX- OR RX+ and RX- or both on every port

Baud Rates

300 to 230 Kbps

Receive Buffer 4.5KB

Transmit Buffer 4.5KB

Device Driver Data Control

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 or 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

Ethernet packet switching, Auto Negotiation, Link/Activity Status LED

Network Protocols

ARP, BOOTP, DHCP/RARP, HTTP, HTTPS, SSH, SSL/TLS, ICMP, RFC 1006 (ISO over TCP), SNMP (MIB-II), TCP/IP & UDP socket services, Telnet, and TFTP, and supports IP multicast data transmission

FEATURES

SNMP Support

Monitoring Only

Other

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

0.55lbs

249g

Package Shipping Dimensions

5-11/16" x 5-11/16" x 3-3/8"
144.46 x 144.46 x 85.73mm

UPC Code

7-56727-99600-2

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

European Standard EN55022

AS/NZS CISPR 22

Immunity

European Standard EN61000-6-2

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

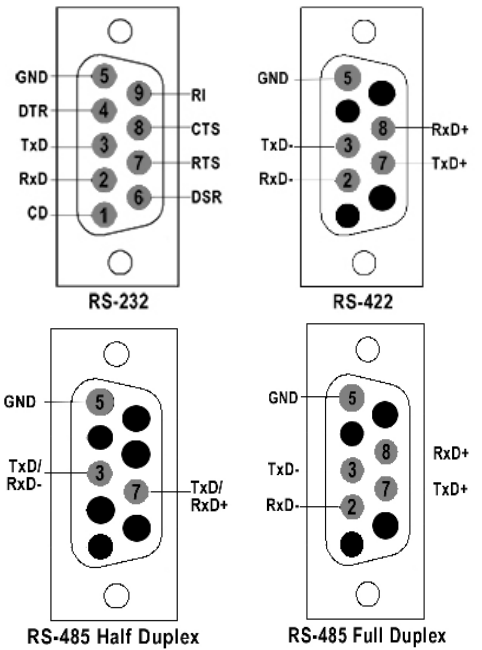
NEMA TS2 Compliant

RoHS2 compliant under CE

REGULATORY APPROVALS



PINOUT DIAGRAMS



Warranty Information

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

Sales Support

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Technical Support

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