DeviceMaster® RTS 2-Port 1E & 2E

Part Number: 99480-0 (1E)
Part Number: 99481-7 (2E)

KEY FEATURES AND BENEFITS

- DIN rail mounting and screw terminal connections
- Wide input DC voltage ranges (5-30 volts)
- Wide operating temperature ranges (-40º to 75º C)
- NEMA TS2 compliant
- 2 ports and 8 serial connections (on the DeviceMaster 2E)
- IPv6 support

PRODUCT DESCRIPTION

The DeviceMaster RTS 2-Port 1E and 2E are the newest models in Comtrol'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;

• Industrial automation;

• Material handling; or

• Any project that requires serial-to-Ethernet communication with DIN rail-based equipment installations.

The DeviceMaster RTS 2-Port includes DIN-rail mounting and screw terminal connections for convenient installation. It off ers both wide DC voltage ranges (5-30 volts) and wide operating temperature ranges (-37º to 74º C), so it operates reliably in a variety of challenging physical environments.

The RTS is National Electrical Manufacturers Association (NEMA) TS2 compliant. And with 2 Ethernet ports on the 2E, 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 RTS supports RS-232, RS-422 and RS-485 serial communications at standard baud rates from 300 bps to 230 Kbps. The DeviceMaster RTS 2-Port 1E offers a single RJ45 jack with a 10/100 Ethernet connection to the network, while the 2-Port 2E includes a network switch to provide two 10-100 Ethernet connections with an RJ45 jack. Both products accept 5-30 volts DC through screw terminal connections, and a 90-264VAC power supply is also available.

connect. communicate. control.

DEVICEMASTER SPECIFICATIONS

HARDWARE

Bus Interface Specification	10/100 BASE-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	
Encolsure Dimensions	
1E	4.37" x 3.9" x 0.89"
	111 x 99 x 22.6 mm
2E	4.37" x 3.9" x 1.78"
	111 x 99 x 45.2 mm
Product Weight	
1E	4.6 oz
	130.41 g
2E	7.5 oz
	212.62 g

ELECTRICAL SPECIFICATIONS

DC Input Voltage	
5-30 V	
Current Consumption	+24 VDC
1E	60 mA
2E	80 mA
Power Consumption (max)	
1E	1.5 W
2E	2.0 W
ESD Surge Protection (min)	
1E	25KVs
2E	25KVs

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	
-40 to 75°C	
Storage Temperature	
-40 to 85°C	
Operating Humidity	
Non-condensing	5% to 95%
Altitude	
0 to 10000 Feet	
Heat Output	
1E	5.0 BTU/Hr
2E	6.6 BTU/H
Mean time between failures	
1E	58.57 Years
2E	45.66 Years

SERIAL COMMUNICATIONS

Connector Type
(2) Screw Terminal Blocks
Interface Standard
RS-232, RS-422, RS-485 Half-Duplex, RS-485 Full-Duplex
Baud Rates
300 bps to 230.4Kbps
Transmit Buffer
256 Bytes
Recieve Buffer
1024 Bytes
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
1E
(1) RJ45F Auto MDI/MDI-X
2E
(2) RJ45F Auto MDI/MDI-X

EXPORT INFORMATION

Packaged Shipping Weight	
1E	0.91 lbs
	0.41 kg
2E	1.04 lbs
	0.47 kg
Package Dimensions	
9.25" x 2.5" x 7.25"	
235 x 63.5 x 184.2 mm	
UPC Code	
1E	7-56727-99480-0
2E	7-56727-99481-7
Country of Origin	
USA	
ECCN	
5A992	
Schedule B Number	
8471.80.1000	

DEVICE DRIVERS

Linux
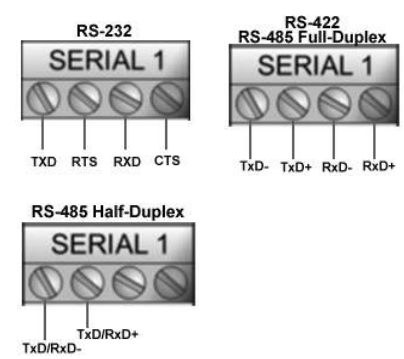Microsoft® Windows® XP through Windows 10

REGULATORY STANDARDS

Emission
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
CSA C22.2 No. 60950/UL60950 Third Edition
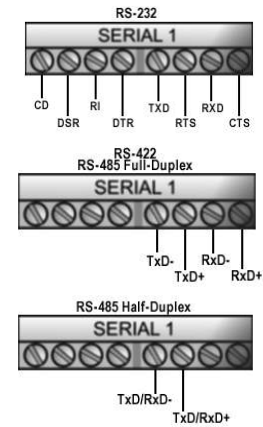RoHS2 Compliance under CE
NEMA TS2 Compliant

REGULATORY APPROVAL MARKS

PIN ASSIGNMENTS 2-PORT 1E

PIN ASSIGNMENTS 2-PORT 2E

COMTROL®

Warranty Information
Comtrol offers a 30-day satisfaction guarantee and 5-year limited warranty.

Sales Support
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