

## HIGHLIGHTS

- DIN-rail mounting and screw terminal connections
- Wide input DC voltage ranges (5-30 volts)
- Wide operating temperature ranges (-37° to 74° C)
- NEMA TS2 compliant
- 2 ports and 8 serial connections (on the DeviceMaster 2E)



Part Number  
99480-0

Part Number  
99481-7

## DeviceMaster® RTS 2-Port 1E and 2E

The DeviceMaster RTS 2-Port 1E and 2E are 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;
- 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 offers both wide DC voltage ranges (5-30 volts) and wide operating

temperature ranges (-37° to 74° 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.

## 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
• Enclosure Dimensions	
1E	4.37" x 3.9" x .89"
2E	4.37" x 3.9" x 1.78"
• Product Weight	
1E	4.6 oz
2E	7.5 oz

### 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	25KV
2E	25KV

### ENVIRONMENTAL SPECIFICATIONS

• Operating Temperature	-37 to 74°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
• MTBF	
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 to 230.4Kbps
• Transmit Buffer	256 Bytes
• Receive 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
• 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
2E	1.04 lbs
• Package Dimensions	9.25" x 2.5" x 7.25"
• UPC Code	
1E	7-56727-99480-0
2E	7-56727-99481-7
• Country of Origin	USA
• ECCN	5A991
• Schedule B Number	8471.80.1000

### DEVICE DRIVERS

- Linux
- Microsoft® Windows Server® 2003
- Microsoft® Windows Vista™
- Microsoft® Windows® 2000
- Microsoft® Windows® XP
- Microsoft® Windows 7
- Microsoft® Windows 2008 Server

### REGULATORY APPROVAL MARKS

- RoHS 2002/95/EC
- CE
- FCC
- UL/cUL
- C-Tick

### REGULATORY STANDARDS

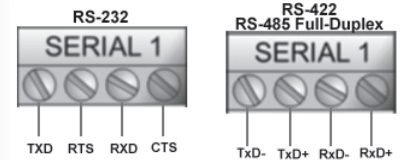
- Emission:
  - CANADIAN EMC REQUIREMENTS ICES-003
  - European Standard EN55022
  - FCC PART 15 SUBPART B CLASS A LIMIT
  - AS/NZS CISPR 22
- Immunity:
  - European Standard EN55024
  - IEC 1000-4-2/EN61000-4-2: ESD
  - IEC 1000-4-3/EN61000-4-3: RF
  - IEC 1000-4-4/EN61000-4-4: Fast Transient
  - IEC 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
- European Standard: 2002/95/EC Directive (RoHS)
- NEMA TS2 Compliant

### FEATURES

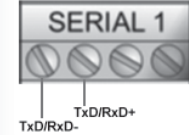
- SNMP Support
- RoHS Compliant



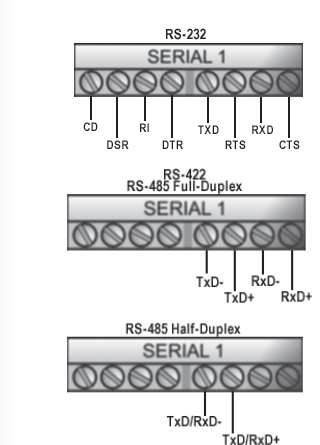
### RTS 2-PORT 1E PIN ASSIGNMENTS



### RS-485 Half-Duplex



### RTS 2-PORT 2E PIN ASSIGNMENTS



### ORDERING INFORMATION

99480-0 DeviceMaster RTS 2-Port 1E  
99481-7 DeviceMaster RTS 2-Port 2E

### RECOMMENDED ACCESSORIES

1200038 Universal Power Supply (24VDC, 24W, 3-WIRE)

### PRODUCT SUPPORT & SERVICE INFORMATION

#### Warranty Information

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

#### Sales Support

+1.763.494.4100  
sales@comtrol.com

#### Technical Support

+1.763.494.4100  
www.comtrol.com/support

#### Email, FTP, and Web Support

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