DEVICE·MASTER®
RTS

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 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 offers 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.

COMTROL®
Network Enabling Devices

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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 .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 — 25KVs
  2E — 25KVs

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
- 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
- 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

REGULATORY APPROVAL MARKS

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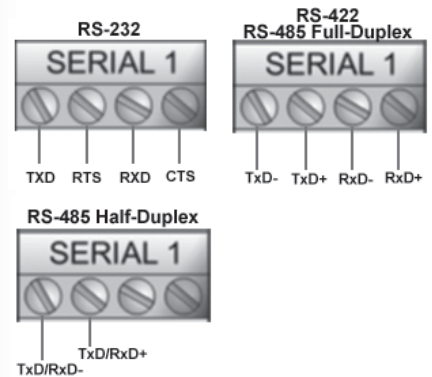- FCC
- UL/cUL
- C-Tick

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
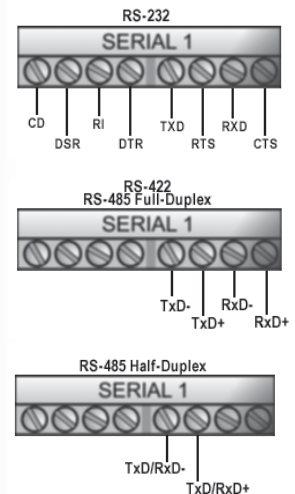- European Standard: 2002/95/EC Directive (RoHS)
- NEMA TS2 Compliant

FEATURES

- SNMP Support
- RoHS Compliant
- 2-Year Warranty

RTS 2-PORT 1E PIN ASSIGNMENTS

RS-232 / SERIAL 1 — TXD RTS RXD CTS

RS-422 RS-485 Full-Duplex / SERIAL 1 — TxD- TxD+ RxD- RxD+

RS-485 Half-Duplex / SERIAL 1 — TxD/RxD- TxD/RxD+

RTS 2-PORT 2E PIN ASSIGNMENTS

RS-232 / SERIAL 1 — CD DSR RI DTR TXD RTS RXD CTS

RS-422 RS-485 Full-Duplex / SERIAL 1 — TxD- TxD+ RxD- RxD+

RS-485 Half-Duplex / SERIAL 1 — TxD/RxD- TxD/RxD+

ORDERING INFORMATION

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

PRODUCT SUPPORT & SERVICE INFORMATION

Warranty Information
Comtrol offers a 30-day satisfaction guarantee and 2-year limited warranty.

Sales Support
+1.763.494.4100
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