DEVICE·MASTER®
RTS

HIGHLIGHTS

- DIN-rail mounting and screw terminal connections
- Wide input DC voltage ranges (5-30 volts)
- Wide operating temperature ranges (-37º to 74º 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 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.

COMTROL®

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
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 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
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® 7
Microsoft® Windows® 2008 Server
Microsoft® Windows® Vista
Microsoft® Windows Server® 2003
Microsoft® Windows® XP
Microsoft® Windows NT® 4.0 (Legacy)
Microsoft® Windows® 2000 (Legacy)
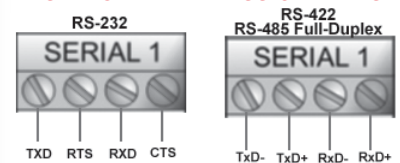
REGULATORY APPROVAL MARKS

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
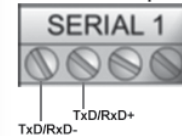(RoHS)
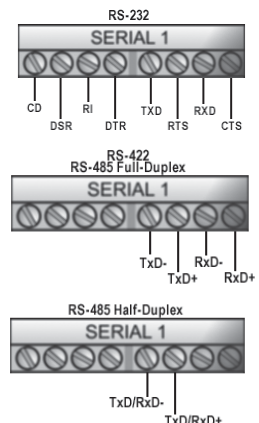NEMA TS2 Compliant

FEATURES
• SNMP Support
• RoHS Compliant

RTS 2-PORT 1E PIN ASSIGNMENTS

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

Sales Support
+1.763.957.6000
sales@comtrol.com

Technical Support
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www.comtrol.com/support

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