DEVICE·MASTER®
UP

HIGHLIGHTS

- **64 Modbus/TCP Connections**

- **Simple web base configuration**

- **Informative device communication and status pages**

- **Dual Ethernet Ports for daisy chaining network connections between multiple units**

- **Advanced Modbus/TCP to Modbus/RTU functionality:**

  o Up to 247 slave devices per gateway

  o No limit on number of devices per serial port

  o Automatic device location and message routing

- **Advanced Modbus/TCP to Raw/ASCII Functionality:**

  o Modbus/TCP to serial and/or Ethernet TCP/IP

  o Maximum serial packet size of 1518 bytes

  o Maximum Ethernet TCP/IP packet size of 2048 bytes

  o True Peer-to-Peer Modbus/TCP messaging. RX and TX channels configured independently to Master or Slave.

  o Intelligent packet identification and handling.

  o DualConnectPlus technology

Part Number
99532-6

Part Number
99542-5

EXTENDED TEMPERATURE RATINGS

NEMA TS2

DeviceMaster® UP 2-Port 1E and 2E Modbus

The DeviceMaster UP has been designed to meet the demands of today's increasingly diverse Modbus installations.

Comtrol has developed three unique Modbus firmware applications that provide a wide range of Modbus connectivity. Simple connections or complex Modbus networks, you can do it all with a DeviceMaster UP.

Highly flexible and robust, the DeviceMaster UP provides connectivity between a vast array of Modbus controllers and devices. Simplified configuration pages, innovative functionality and informative diagnostic information all make for quick and easy set-up of even the most complex Modbus installations.

COMTROL®

SPECIFICATIONS

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	
Status, Ethernet Link/Activity	
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/Hr
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 or 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	7-56727-99532-6
2E	7-56727-99542-5
Country of Origin	USA
ECCN	5A992
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

RoHS CE C FC c UL us

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

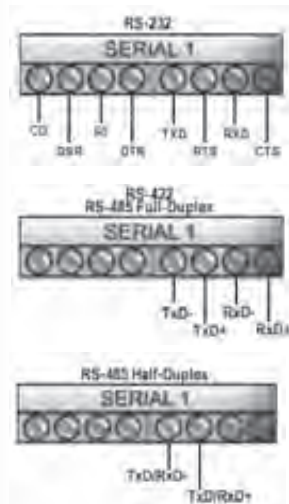## FEATURES

SNMP Support
RoHS Compliant

UP 2-PORT 1E PIN ASSIGNMENTS

UP 2-PORT 2E PIN ASSIGNMENTS

ORDERING INFORMATION

99532-6 DeviceMaster UP 2-Port 1E (Modbus)
99542-5 DeviceMaster UP 2-Port 2E (Modbus)

RECOMMENDED ACCESSORIES

32100-2 Power Supply PS1020 (24V, 24W)
32101-9 Power Supply PS1060 (24V, 60W)
32102-6 Power Supply PS1100 (24V, 100W)

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
+1.763.957.6000
www.comtrol.com/support

Email, FTP, and Web Support
info@comtrol.com
ftp.comtrol.com
www.comtrol.com