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

Part Number: 99532-6 (1E)
Part Number: 99542-5 (2E)

KEY FEATURE AND BENEFITS

- 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:
  - Up to 247 slave devices per gateway
  - No limit on number of devices per serial port
  - Automatic device location and message routing
- Advanced Modbus/TCP to Raw/ASCII Functionality:
  - Modbus/TCP to serial and/or Ethernet TCP/IP
  - Maximum serial packet size of 1518 bytes
  - Maximum Ethernet TCP/IP packet size of 2048 bytes
  - True Peer-to-Peer Modbus/TCP messaging. RX and TX channels configured independently to Master or Slave.
  - Intelligent packet identification and handling
  - DualConnectPlus technology

PRODUCT DESCRIPTION

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.
## DEVICEMASTER SPECIFICATIONS

### HARDWARE
- **Bus Interface Specification**: 10/100 BASE-T
- **Memory**: 8 MB DDRAM
- **Flash**: 4 MB
- **Enclosure**: UL94-V0 Plastic DIN rail (35mm) LED
- **Status, Ethernet Link/Activity**:
  - 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**: 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**:
- **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 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 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
  - RoHS compliant under CE
  - NEMA TS2 Compliant

### REGULATORY APPROVAL MARKS

### FEATURES
- **SNMP Support**: RoHS Compliant

### WARRANTY INFORMATION
- **30-day satisfaction guarantee and 5-year limited warranty.**
- **Sales Support**
  - Phone: +1.763.957.6000
  - Email: sales@comtrol.com
- **Technical Support**
  - Phone: +1.763.957.6000
  - Email: support@comtrol.com
- **Email, FTP, and Web Support**
  - Info: info@comtrol.com
  - FTP: ftp.comtrol.com
  - Web: www.comtrol.com

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