



## HIGHLIGHTS

- Serial to Modbus/TCP
- Wide operating temperature ranges (-37°C to 74°C)
- Variable power input eliminates need for power converters
- PortVision® enterprise monitoring and management software
- RoHS Directive 2002/95/EC compliant
- DualConnectPlus™ Technology



Part Number  
99521-0

## DeviceMaster® UP 4-Port VDC Modbus

The DeviceMaster UP brings plant floor device visibility by enabling communication between factory floor devices and PLC controllers. The DeviceMaster UP Industrial Ethernet gateway offers a solution that configures in minutes via the web and enables you to support the Modbus/TCP protocol for serial device to PLC connections. RS-232, RS-422 or RS-485 software-selectable serial connections are supported via secure DB9 connectors.

The DeviceMaster UP provides the following communication modes:

- Modbus/TCP to Serial or Ethernet TCP/IP
- Modbus/TCP to Modbus/RTU
- Modbus/TCP to raw serial data
- Modbus/RTU Device (Auto Locate and Auto Route)

The easy-to-use configuration and Modbus/TCP protocol makes upgrades for plant floor global visibility faster and more economical than ever before. The DeviceMaster UP enables managers to leverage legacy devices and boost ROI, while reducing PLC programming and maintenance costs with simplified PLC interfaces.

DualConnectPlus™ technology provides the ability to simultaneously connect both serial and Ethernet devices to PLCs and/or applications. String, RFID, and barcode data filtering eliminates redundant data while extracting the RFID and barcode parameters.

The DeviceMaster UP is a cost-effective and proven Industrial Ethernet connectivity solution and is backed by Control with live technical support and over 25 years of experience in network enabling devices.



## SPECIFICATIONS

### HARDWARE

- Serial Connectors (4) DB9 Male
- Ethernet Ports (2) 10/100 BaseT
- Processor ARM7 44Mhz
- Memory 8MB RAM, 4MB Flash
- Mounting Options Panel/Rack
- LED Indicators Status, Ethernet Link/Activity, Collision, 100MB Ethernet, RX/TX Per Port
- Housing Rugged Steel Construction

### ELECTRICAL SPECIFICATIONS

- Device Requirements 5 to 30 VDC
- Device Consumption 2.5 Watts
- External Power Supply (Included) 90 to 260 VAC @ 47-63Hz
- Output 500mA @ 24 VDC
- Surge Protection 15KV

### ENVIRONMENTAL SPECIFICATIONS

- Operating Temperature\* -37° C to 74°C
- Storage Temperature 40°C to 85°C
- Humidity (NonCondensing)
  - System On 20% to 80%
  - System Off 8% to 80%
- Altitude 0 to 10,000 Ft
- Heat Output 8.5 BTU/Hr
- MTBF 46.2 Years

### SERIAL COMMUNICATIONS

- Software Selectable RS-232/422/485
- Baud Rates 50 to 230 Kbps
- Data Bits 7 or 8
- Parity Odd, Even, None
- Stop Bits 1 or 2

### COMMUNICATION MODES

- Modbus/TCP to Serial or Ethernet TCP/IP
- Modbus/TCP to Modbus/RTU
- Modbus/TCP to raw serial data
- Modbus/RTU Device (Auto Locate and Auto Route)

### NETWORK PROTOCOLS

- Telnet, HTTP, SNMP, DHCP, RARP, ARP, BOOTP, Ping

### REGULATORY APPROVAL MARKS

CE Mark, FCC Part 15 Subpart B Class A, CTick, CUL, ODAV Certified, PIC Certified, RoHS Certified

### REGULATORY STANDARDS

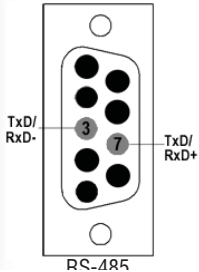
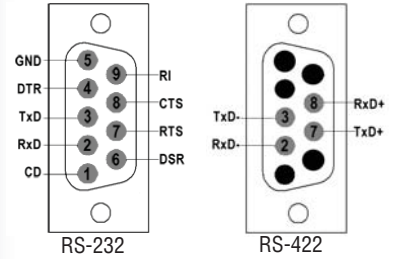
- Immunity: EN55024, EN6100042, EN6100043, EN6100044, EN6100045, EN6100046, EN6100048, EN61000411, IEC 100042, IEC 100043, IEC 100044, IEC 100045, IEC 100046, IEC 100048, IEC 1000411
- Emission: EN55022 & A1:2000 IEC 100032, IEC 100033, CISPR22, ICES003
- Safety: EN60950, IEC 60950, CSA C22.2 No. 50/UL60950

### FEATURES

- Easy Setup
- Software Selectable Serial Port Interface
- PortVision Remote Management Software
- PLCbased or Webbased Serial Port Configuration
- Watchdog Reset



### 4-PORT PIN ASSIGNMENTS



DeviceMaster UP 4-Port Dimensions (in inches)  
Metric (L 27.23cm X W 16cm X H 3.81cm)

### ORDERING INFORMATION

99521-0 DeviceMaster UP 4-Port VDC Modbus

(Power Supply (24VDC, 24 Watt) Included)

### 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

info@comtrol.com  
ftp.comtrol.com  
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\*We have tested the products to run at these temperatures.