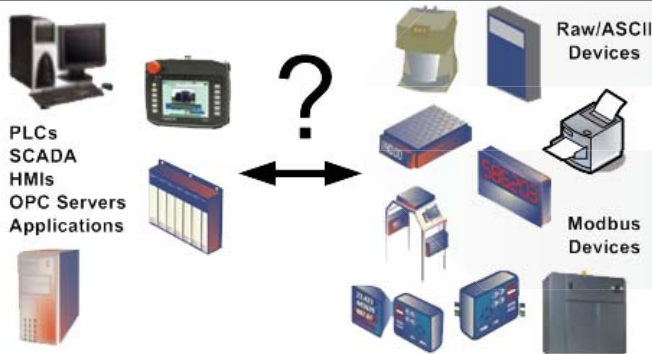# DeviceMaster UP
Modbus Solutions

"Can it really do all that?"
The most frequently asked question about the DeviceMaster UP Modbus capabilities

To meet the need for 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.

You can quickly and easily connect many different **PLCs, SCADA systems, OPC Servers, HMIs** and applications to a vast array of devices. **Barcode scanners, weigh scales, vision systems, encoders, HVAC systems** - just a few of the many devices currently in operation.

If you need Modbus connectivity and want it done quickly and easily, the DeviceMaster UP is the solution for you.
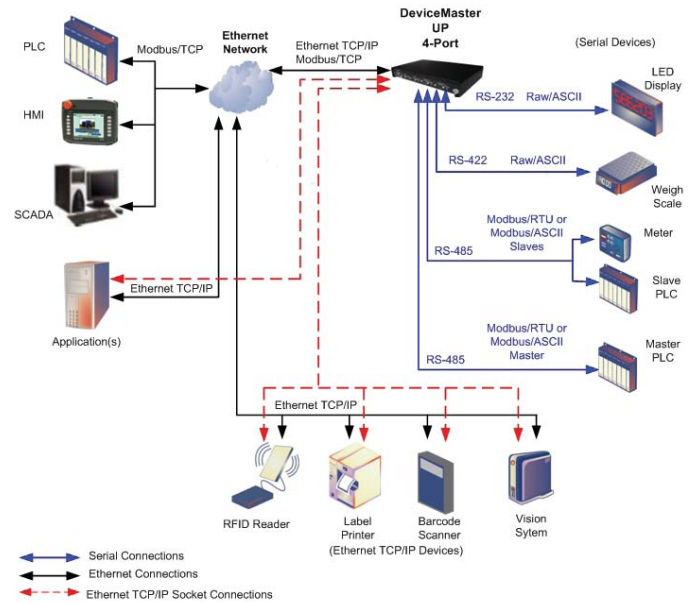
At Comtrol, we are focused on providing the most flexible and robust Modbus gateways available today. From simplified configuration pages to innovative functionality to informative diagnostic information, we intend to make your job easier. And we enjoy explaining that **"Yes, it really can do all that".**

HIGHLIGHTS

- **Protocol Flexibility —** Modbus/TCP masters and slaves, Modbus RTU/ASCII serial master and slaves, Modbus RTU/ASCII over Ethernet masters

- **DualConnectPlus™ Technology**— simultaneously connects both serial and Ethernet TCP/IP devices to PLCs and/or applications

- **Advanced Raw/ASCII support —** Peer-to-Peer Modbus/TCP, Command/Response mode, large received packet handling

- **Web-based configuration** — makes configuration changes quick and easy

- **Low latency** — typically less than 10 ms

- **Diagnostic Capabilities –** informative message logs, communication, and device status pages

- **Daisy Chaining –** on select models, dual Ethernet ports for daisy chaining network connections between multiple units

- **Variable power input** — eliminates the need for power converters

- **Temperature rated for extreme conditions**—operating temperature of -37° to 74°C enables DeviceMaster UP to function in a wide variety of harsh environments

- **Rugged housing** — with panel, rack, and DIN rail mounting options

- **PortVision™ Plus enterprise monitoring and management software** — enables user to view status, update firmware, and resolve issues remotely

- **RoHS Directive 2002/95/EC compliant**

- **Available Models** — 1-port, 2-port 1E, 2-Port 2E, 4-port, and embedded
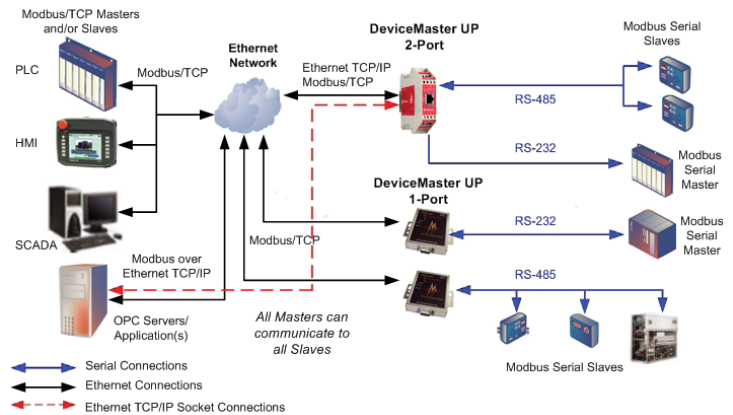
Modbus/TCP Firmware

- Highly flexible, with an emphasis on **Raw/ASCII devices**
- Also supports **Modbus RTU/ASCII slave devices**
- Connect **Raw/ASCII devices** to Modbus/TCP and Modbus RTU/ASCII serial controllers
- **Automatic protocol conversions and routing**
- Connect **Modbus/TCP and Modbus RTU/ASCII serial masters** to Modbus RTU/ASCII serial slaves
- Many **unique Raw/ASCII handling features**
- Simultaneously connect **multiple Modbus masters** to individual devices
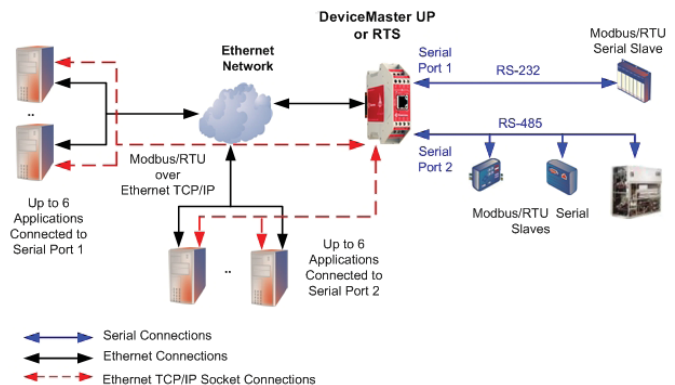- Modbus message **Alias Device ID** conversions

Modbus Router Firmware

- Provides **increased Modbus connectivity** options
- Additional Modbus master and slave types
- **Automatic protocol conversions and routing**
- Turn **serial Modbus masters into Modbus/TCP masters** for network wide connectivity
- Connect Modbus masters to **Modbus devices anywhere on a network**
- Simultaneously connect **multiple Modbus masters** to individual slave devices
- Modbus message **Alias Device ID** conversions
- Serial port **Device ID Offset** conversions
- Modbus security provided via **Read-Only Mode**

Modbus Server Firmware

- Connect Modbus/RTU over Ethernet master(s) to serial slave(s)
- Provides up to **six Ethernet connections per serial port**
- Runs on any DeviceMaster UP or RTS chassis