



Control Releases Modbus Server Firmware for DeviceMaster RTS

Control just released Modbus Server, a new firmware application for our device server products.

Modbus Server is an innovative application providing advanced Modbus RTU over Ethernet TCP/IP to serial device connectivity.

The Modbus Server application was designed to provide enhanced connectivity for OPC servers and applications that require Modbus/RTU communication. While standard gateways provide connectivity for only one application per serial port, Modbus Server provides connectivity for up to six applications per serial port.

Modbus Server was designed to greatly enhance system maintenance capabilities. Included are comprehensive device and port specific diagnostic web pages that display status, message response timing, timeout and other error counts, and overall message statistics. A serial log is also included to provide message level diagnosis.

OPC Servers and Applications that require Modbus/RTU communication over Com ports or Ethernet TCP/IP connections.

Modbus Server highlights:

- Supports Modbus/RTU over Ethernet TCP/IP connections to the corresponding serial port via intelligent Modbus message handling and routing.
- Supports only Modbus/RTU over Ethernet TCP/IP connections to a serial port. For information on Modbus/TCP functionality.
- Supports up to six Ethernet TCP/IP connections to each serial port.
 - One TCP/IP connection can be created with the “Connect To” connection method.
 - The “Listen” connection method accepts up to five or six connections, depending if the “Connect To” connection is active.
- Supports up to 255 Modbus devices per port. Both valid, (1-247), and reserved, (248-255), device IDs are supported.
- Modbus RTU specific message handling:
 - CRC verification of all messages received on the TCP/IP and serial interfaces.
 - Timing out of responses from slave Modbus/RTU devices.
 - Broadcast message handling on connected port only.
- System monitoring to ensure gateway operation:
 - Application message timeouts.
- Advanced diagnostics web pages:
 - Modbus device specific statistics, response timing, and status. Up to 255 devices per serial port can be monitored simultaneously.
 - Serial port specific statistics and status.
- Serial port message logging.
- Combined with a serial port redirector, such as the Control Secure Port Redirector, can support up to six COM port connections to each serial port.

Control Corporation is focused on innovation in the industrial and automation markets. Its DeviceMaster UP product line supports Modbus TCP, EtherNet/IP, and PROFINET. It is available in one- and four-port models and an embeddable one-port model. Control has introduced several industry firsts for Modbus TCP including: Modbus TCP to Ethernet TCP/IP device connectivity, Slave, Master, and Peer-to-Peer Modbus TCP modes, the DualConnectPlus(tm) functionality, and, on the four-port DeviceMaster UP, intelligent Modbus TCP to Modbus RTU switching capabilities.