

Korenix Launches Control's Modbus Server for Advanced Modbus RTU over Ethernet TCP/IP to Serial Device Connectivity

Taipei, Taiwan, July 2010 - Korenix brings innovative applications to the industrial networking sector by releasing Control's latest Modbus Server firmware, which provides advanced connectivity for OPC servers and applications that require Modbus RTU communication.

Through standard Ethernet TCP/IP, per each serial port, it is possible to connect up to six master applications with different IP addresses with Modbus Server. This unique software accompanying the DeviceMaster series greatly enhances system maintenance capabilities, and also provides Modbus RTU functionality required for building automation, factory, warehouse, and transportation applications.

Modbus RTU multi-connections over Ethernet TCP/IP

Without using a Modbus gateway for Modbus RTU to Modbus TCP conversion, Modbus Server can be easily uploaded on most DeviceMaster devices to take advantage of Ethernet multi-connectivity features for Modbus RTU communication. It supports Modbus RTU over Ethernet TCP/IP connections to the corresponding serial port via intelligent Modbus message routing for specific applications.

The new firmware multi-connection functionality greatly benefits users:

- 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 accepts up to five or six connections, depending if the "Connect to" connection is active.
- Combined with a serial port redirector, can support up to six COM port connections to each serial port.
- Supports up to 255 Modbus slave devices per port. Both valid (1-247) and reserved (248-255) device IDs are supported.

Distinguished Performance & Message Diagnostics

To maintain high-quality of system communications, Modbus Server is designed for comprehensive device and port-specific diagnostic web pages that display status, message response timing, timeout and error counts as well as overall message statistics. It provides:

- 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:
 - Gateway busy
 - 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

About Korenix

Korenix Technology (korenix.com), a Beijer Electronics Group Company, is devoted to designing and manufacturing high quality Industrial Networking & Computing Products to ensure high quality and reliability of industrial networks. Korenix solutions encompass the Industrial IEEE 802.3af PoE and IEEE 802.3at High power PoE Switches, Industrial L2 / L3 Rackmount / Rail Ethernet Switches and IP67/ 68 Waterproof Ethernet Switches, Long Distance Wireless Outdoor APs and Embedded Networking Routing Platforms, etc.