Making Data Acquisition Easy

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ICP DAS USA Introduces New Modbus TCP to RTU Gateway

Based on the success of the previous tGW-700 series tiny Modbus TCP to RTU/ASCII gateway, the new tGW-735i gateway not only adds 2500 VDC isolation, but also expands its communication interfaces. Equipped with 1 Power-over-Ethernet (PoE) port and 3 RS-485 Ports, the new tGW-735i allows a Modbus TCP host to communicate with up to 3 serial Modbus RTU/ASCII devices through an Ethernet network, thus saving the cabling costs. The tiny Modbus TCP to RTU gateway can be used to create a pair-connection application (as well as serial-bridge or serial-tunnel application), and can then route data over TCP/IP between two serial Modbus RTU/ASCII devices, which is useful when connecting mainframe computers, servers or other serial devices that use Modbus RTU/ASCII protocols and do not themselves have Ethernet capability.

The new read-cache function included in firmware version 1.4.1 is used to store previous requests and responses in the memory buffer. When other HMI/SCADA master controllers send the same requests to the same RTU slave device, the cached response will be returned immediately. This feature dramatically reduces the loading time on the RS-485 bus communication, ensures faster TCP responses, and improves the stability of the entire system. The tGW-735i supports DHCP client function, which allows it to easily obtain the necessary TCP/IP configuration information from a DHCP server. The new tGW-735i is also equipped with a powerful 32-bit MCU to enable efficient handling of network traffic, and a built-in web server that provides an intuitive web management interface that allows users to modify the configuration of the module, including the DHCP/Static IP, the gateway/mask settings and the serial port settings.

ICP DAS USA is a cost-effective leader in the U.S. industrial market; offering a stunningly competitive price/performance ratio, while catering to the latest solutions for current industrial trends. We seek to provide our customers with cost-effective, flexible, and easy-to-use solutions for their Data Acquisition and Embedded Control Applications. ICP DAS USA provides a great variety of products with modular and universal solutions for any scale application or projects.

To learn more about the variety of ideas and real projects integrated with ICP DAS hardware, visit our website at www.icpdas-usa.com, or give us a call, toll free, at 1-888-971-9888 and one of our engineers would be happy to assist in reviewing the project requirements, ensuring that the highest quality solution is presented in your final application.