



CONTROL CREATES CUSTOM DEVICEMASTER UP FIRMWARE TO PROVIDE UNIQUE CONNECTIVITY BETWEEN A BARCODE SCANNER, SERIAL SORTER AND A DATABASE APPLICATION

As a leading provider of networking devices in the field of Industrial Automation, Control provides custom solutions for its DeviceMaster product line.

A large company approached Control with a serious and urgent problem. With the company's primary business requiring the rapid and efficient movement of merchandise, they were faced with the constant challenge of sorting thousands of barcode labeled packages each day. The need for massive sorting had presented their client with a serious obstacle. The client's large volumes created the need to upgrade their 10-digit barcodes to a longer barcode length and their current sorting platforms were unable to handle barcodes longer than 10-digits. They also needed to begin storing the barcode data into a database for tracking and inventory control. And they needed to implement these changes quickly.



The client had already approached the sorter manufacturers, but the only solutions presented to them had required upgrading or replacing all of the PLCs used to control the sorting systems. Furthermore, there was no proposed solution for forwarding the barcode data to the database application. Not only were those solutions very costly, they would not meet the requirements and would take much longer than their schedule allowed. When presented with this situation, Control's sales and engineering staff listened carefully to the requirements, concerns, and the urgency of the situation. Following the conversation, Control's engineering staff immediately designed a custom solution, sent the design to the client, and began development work that day. The custom solution included:

- A custom firmware application running on the DeviceMaster UP with:
 - o Intelligent processing of the various barcodes
 - o Custom message routing between the serial barcode scanner, serial PLC interface, and Ethernet TCP/IP connected database application
 - o Custom diagnostic and configuration web pages
 - o Ability to save and retrieve configuration settings via PortVision Plus
- Full documentation including a Software Design Specification and User Guide information

The initial solution was delivered within one week and subsequent functionality upgrades were completed over the next three months.

Control was able to quickly provide an innovative solution by customizing a DeviceMaster UP gateway and smoothly integrating the solution into their existing sorting system. Control's solution allowed their client to meet their requirements and finish their project on time.

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DeviceMaster® UP *Industrial Ethernet Gateways*

KEY FEATURES & BENEFITS

- Protocol Flexibility — EtherNet/IP, PROFINET IO, Modbus/TCP, Modbus/RTU, Modbus/ASCII
- DualConnectPlus™ Technology—simultaneously connects both serial and Ethernet TCP/IP devices to PLCs and/or applications
- Web-based configuration—makes configuration changes quick and easy
- Large received packet support — up to 1518 bytes serial and 2048 bytes Ethernet TCP/IP
- Intelligent packet identification — intelligent start/end transmission character handling
- Received packet size control — truncate or drop oversized packets
- Low latency — typically less than 10 ms
- Diagnostic Capabilities — informative message logs, communication, and 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 2 compliant under CE
- Available Models —1-port, 2-port 1E, 2-Port 2E, 4-port, and embedded



Warranty Information

Control offers a 30-day satisfaction guarantee and 5-year limited warranty.

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