



PLC TO FLOOR DEVICE COMPATIBILITY

Smart Papers LLC applies Control's DeviceMaster ®UP to connect, communicate, and control via its EtherNet/IP™ platform. Smart.

For most organizations employing sophisticated automation systems for manufacturing, distribution, and warehousing have historically been hampered by technical and feasibility issues connecting plant floor devices to PLCs within the enterprise due to incompatibility with industrial automation control systems.

This communication problem is solved with the DeviceMaster UP.

When Smart Papers, a leading commercial paper manufacturer, set the goal to improve finished product quality assurance and gain more detailed manufacturing lot information using existing infrastructure, they chose the DeviceMaster UP. It worked perfectly with their EtherNet/IP network, which extends commercial off-the-shelf Ethernet to the Common Industrial Protocol (CIP™), an upper layer protocol fully compatible with standard TCP/IP protocols such as HTTP and SNMP. CIP allows EtherNet/IP product developers, system integrators and users to apply the same objects and profiles for plug-and-play interoperability among devices from multiple vendors and in multiple sub-nets. EtherNet/IP provides manufacturers with a proven and future-proof Ethernet network solution, one that incorporates all the advantages that have made Ethernet and Internet technologies ubiquitous and essential in office applications, while delivering interoperable, open network products that are supported by a vast network of vendors worldwide.

"In our manufacturing facility, we needed a way to add multiple serial ports connecting bar code scanners and printers to help improve product quality assurance and gain more detailed manufacturing lot information," said Bill Granzin, E & I process engineer at SMART Papers. "The DeviceMaster UP was the perfect solution to communicate with all of these added devices on our EtherNet/IP platform. It allowed us to minimize long-term costs, and still leverage our current infrastructure investment."

DeviceMaster UP is a network-attached device gateway that hosts an industrial Ethernet engine and translates serial-device to PLC communications. The DeviceMaster allows users to attach RFID equipment, bar code scanners, displays, and other TCP/IP speaking devices to their industrial Ethernet network. The DeviceMaster UP family of products includes embedded, 1 and 4 port models for added flexibility, plus each unit can speak any of the three protocols, EtherNet/IP, PROFINET, and Modbus/TCP. DeviceMaster UP is ideal for original equipment manufacturers (OEMs) and system integrators interested in offering an embedded, universal method to connect factory floor serial devices and PLCs.

"With DeviceMaster UP, organizations don't need to be slaves to industrial automation protocols," said Bradford Beale, President of Control, "DeviceMaster UP enables plant floor devices and PLCs to speak the same network language, providing a fast and simple way to access raw data without a large capital investment. DeviceMaster UP, the most flexible device server on the market, enables communications between serial devices residing on the factory floor and PLCs supporting the EtherNet/IP, PROFINET, or Modbus/TCP industrial protocols."



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DeviceMaster® UP



KEY FEATURES AND BENEFITS

- DualConnectPlus™ Technology - simultaneously connect both serial and Ethernet devices to PLCs and/or applications. String, RFID, and barcode data filtering eliminate redundant data while extracting the RFID and barcode parameters.
- Provide PLC connectivity - to standard serial devices with protocol support for EtherNet/IP, PROFINET, Modbus/TCP, Modbus RTU/ASCII, and TCP/IP.
- Supported PLC models -
 - EtherNet/IP:** Allen Bradley ControlLogix family, SLC 5/05, PLC-5, MicroLogix
 - PROFINET:** Siemens ET 400, 300 S7
 - Modbus:** Modicon Quantum, Premium, Momentum, Compact, Micro, GE Fanuc Rx7i, Rx3i, 90-70, 90-30, Versamax
- Wide operating temperature range
- Variable power input - eliminates need for power converters
- PortVision® DX monitoring and management software
- RoHS2 compliant under CE
- Security features - SSL & SSH management, SSL serial data stream encryption

PRODUCT DESCRIPTION

At Control, we believe gateways should be intelligent, robust, and easy to use. The DeviceMaster UP provides innovative EtherNet/IP, Modbus, and PROFINET IO connectivity to a wide variety of devices. It can enable you to quickly connect PLCs, SCADA, OPC servers and applications to devices such as barcode scanners, RFID readers, weigh scales, vision systems, printers, encoders, HVAC and sensors.

With its simplified web-based configuration pages, innovative functionality and informative diagnostic information, the DeviceMaster UP provides the functionality required to make your job easier.



Warranty Information

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

Sales Support

+1.763.957.6000
sales@comtrol.com

Technical Support

+1.763.957.6000
www.comtrol.com/support

Email, FTP, and Web Support

info@comtrol.com
ftp.comtrol.com
www.comtrol.com