



COMTROL'S DEVICEMASTER® RTS FACILITATES HYDROPOWER SCADA SYSTEM COMMUNICATION

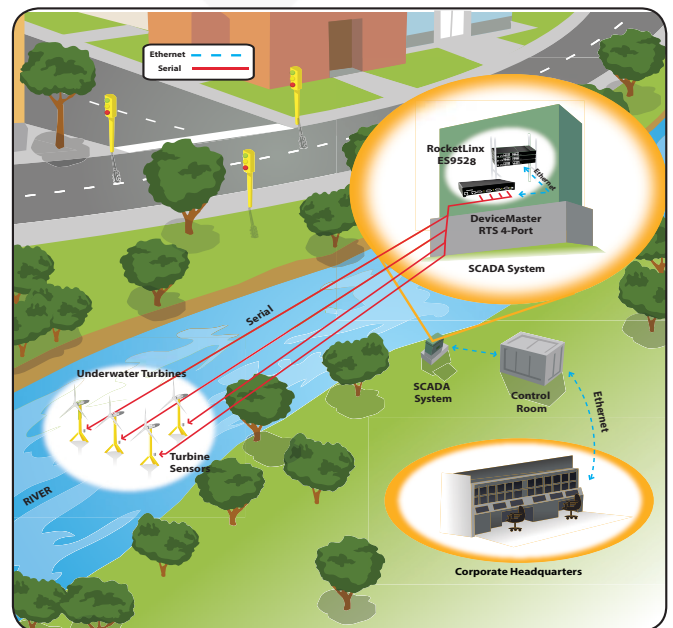
Comtrol Corporation's connectivity equipment facilitates communication for a number of renewable energy applications worldwide. Recently, a large renewable energy production company needed a solution for connecting multiple sensors to a SCADA (supervisory control and data acquisition) system which would relay the sensors' data through an Ethernet connection to the control center. The data could then be accessed remotely to effectively manage and monitor the company's kinetic underwater hydropower system.

The renewable energy system consists of a deployment of horizontal axis turbines underwater, which use tidal and river currents to generate clean energy without restricting the natural flow of water. The system produces cost-effective solutions in a variety of areas, including urban city settings to remote developing countries, and is invisible from the shore.

Sensors are installed directly in the water near the turbines to measure turbulence, temperature, strain and humidity, as well as to detect leaks and ultimately determine the efficiency and performance of the system. These sensors then input data to a SCADA system, which analyzes and monitors system conditions. Comtrol's DeviceMaster RTS 4-Port and 16-Port play an important role in this data collection and transmission.

The DeviceMaster RTS 4-Port is installed directly into the SCADA interface box, to allow serial communication between the SCADA computer system and the multiple sensors. The sensors communicate through multiple serial protocols—RS-232, RS-422, RS-485—in which the DeviceMaster can reliably interpret and communicate.

The DeviceMaster RTS 16-Port is mounted along with multiple servers and electrical grid interfaces in the control room, which is about 30 feet from the water. An Ethernet connection between the DeviceMaster and the system server eliminates the need for extensive serial cabling, reducing the cost and complexity of the overall SCADA system. The DeviceMaster's rugged housings, wide temperature rating and port configuration provided this energy production system with the stability and flexibility required.



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RocketLinx® UP ES9528

Part Number: 32070-8



KEY FEATURES AND BENEFITS

- 28-port managed switch featuring 10/100-TX and 4-port gigabit RJ45/SFP combo (10/100/1000BASE-TX, 1000BASE-X)
- 12.8Gbps switch fabric
- 8K MAC address table
- Supports jumbo frame up to 9,216 bytes
- Max 12 x 100M rings and 2 gigabit rings aggregation capabilities
- VLAN, GVRP, QoS, IGMP snooping V1/V2/V3, rate control, port trunking, LACP, online multi-port mirroring
- Management via console CLI , Web, SNMP V1/V2c/V3, RMON, HTTPS, SSH and NetVision
- Advanced security features support IP security, port security, DHCP server, IP and MAC binding, 802.1x network access control
- Event notification by e-mail, SNMP trap, syslog
- -25o to 70o C operating temperature for extreme environments
- Rackmount installation, low-power

PRODUCT DESCRIPTION

The RocketLinx ES9528 is a managed Industrial Ethernet switch, equipped with 24 10/100BASE-TX ports and four gigabit RJ45/GBIC combo ports. The 4 gigabit combo port design allows 10/100/1000 triple speed, and the SFP ports accept all types of gigabit SFP transceivers, including SX, LX, LHX, ZX and XD for a variety of connections and distances. It is specially designed for control rooms where high-port density and performance are required.

The ES9528 typically is mounted within a 19-inch rack, along with other 19-inch public servers or other network devices. When lower industrial switches are aggregated to the ES9528, the 24 port plus 4G design allows the connection of up to

12 100M rings plus 2 gigabit rings. Each ring has its own ring redundancy protection.

The RocketLinx ES9528 is a fan-less rackmount switch with low-power consumption and supports a wide operating temperature. It supports Jumbo frame featuring up to 9,216 bytes packet size for large file transmissions.

The embedded software supports full Layer 2 management features, multi-form ring redundancy, network control, monitoring, security, and notification. The RocketLinx ES9528 provides the perfect foundation for building your industrial Ethernet infrastructure.



Warranty Information

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

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