



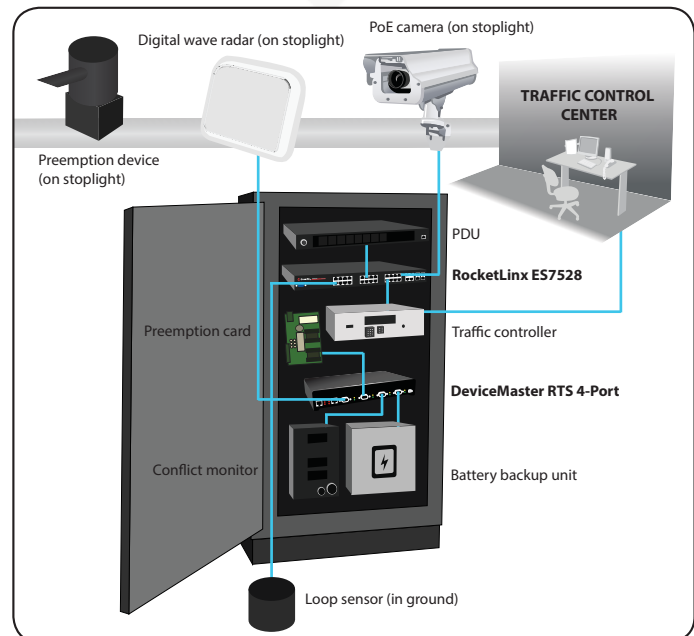
POWER OVER ETHERNET (PoE) FOR INTERSECTION MONITORING

Improving traffic flow is a growing priority for expanding cities and towns, and one of the most efficient ways to reduce accidents and heighten safety is the use of intersection monitoring through video recording. Not only is the video used to determine ways to decrease traffic congestion - it can also be reviewed for accident footage, fault resolution, and to assure that traffic systems are working correctly.

A large city in the state of Iowa is improving its intersection monitoring system. A total of seventy intersections with approximately two hundred cameras are currently deployed around the city, constantly recording traffic activity. Along with cameras, other equipment is installed at the intersections such as preemption devices, conflict monitors, battery backup devices and other various sensors. Preemption systems detect emergency vehicles and adjust traffic signals to allow high-priority vehicles to drive safely through the intersections. Additional sensor data is recorded at the intersections such as car counting, lane changing, and speed of traffic.

The RocketLinx ES7528 Power over Ethernet switches from Control are being deployed to connect intersection devices to remote traffic control centers. As depicted in the diagram, the RocketLinx switch is connected to PoE IP cameras, sending video feed through a controller to the traffic control center. The switch also directs other information such as preemption data, sensor data, and stoplight detection to the traffic control center. The serial devices in the cabinets lack Ethernet connections, therefore needing Control's DeviceMaster RTS DB9 to relay the serial data up to the switch after converting it to Ethernet. This city chose the Control RocketLinx PoE switches and DeviceMaster RTS device servers to upgrade its intersection monitoring system based on the products' ruggedized housings, dependability, and exceptional performance.

RocketLinx Power over Ethernet switches are engineered for applications such as IP video surveillance or wireless broadband, where the power source is not conveniently located. With rugged, drip-proof housings, redundant power inputs, and easy web-based configuration, these Power over Ethernet switches provide reliable networking solutions. The DeviceMaster RTS family of serial device servers enables browser-based remote port/device monitoring and configuration and provides an application software platform for local processing. The DeviceMaster RTS is a reliable network-attached solid-state device server that adds high performance serial ports to your network.



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RocketLinx® ES7528

Part Number: 32049-4



KEY FEATURES AND BENEFITS

- 24 10/100BASE-TX, four Gigabit uplink/four SFP ports
- 24-ports support both 15.4W IEEE 802.3af and 30W high power IEEE 802.3at, including 2-event and LLDP classification
- IEEE 802.3at and IEEE 802.3af with max. 30W per port
- LLDP for reliable PoE connection through Active Powered Device status detection and auto reset function
- Total PoE power budget of up to 720 watts
- Flexible-bandwidth and long-distance fiber data transmission via SFP transceivers
- 12.8G Non-Blocking backplane and 16K MAC table
- IEEE 1588 PTP compliance for precise time synchronization
- Advanced Redundant ring capabilities for aggregating up to 12 x 100Mb rings plus 2 Gigabit rings
- Supports up to 9,216 bytes Jumbo Frame for large file transmission
- Optimized IGMP Query v1/v2 and IGMP Snooping v1/v2/v3 for advanced multicast filtering
- Supports up to 255 VLANs for traffic isolation
- Advanced network management features including SNMP
- Supports DHCP client/server and DHCP Option 82 for automatic IP configuration
- Dual redundant AC and DC power input voltage range: 48VDC (46-57VDC) and 100-250VAC, 47-63Hz, 4A
- IP31 rugged aluminum case with superior heat dispersal
- IPv6 support

DeviceMaster® RTS 4-Port DB9

Part Number: 99445-9



KEY FEATURES AND BENEFITS

- Two 10/100BASE-TX RJ45 ports, four DB9 serial ports
- No serial cable distance limitations enables communication between a host PC and serial devices located anywhere across an Ethernet network
- RS-232/422/485 software selectable
- Supports native COM, TTY, or TCP/IP Socket communication modes
- Web-based configuration makes setup and management changes quick and easy
- Rugged stainless steel housing enables DIN rail or panel mounting
- Temperature rated for extreme conditions (-37° to 74°C)
- PortVision® DX remote monitoring and management software
- Real-time e-mail event notification alerts administrator of potential connection and security issues
- NEMA TS2 Compliant



Warranty Information

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

Sales Support

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Technical Support

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