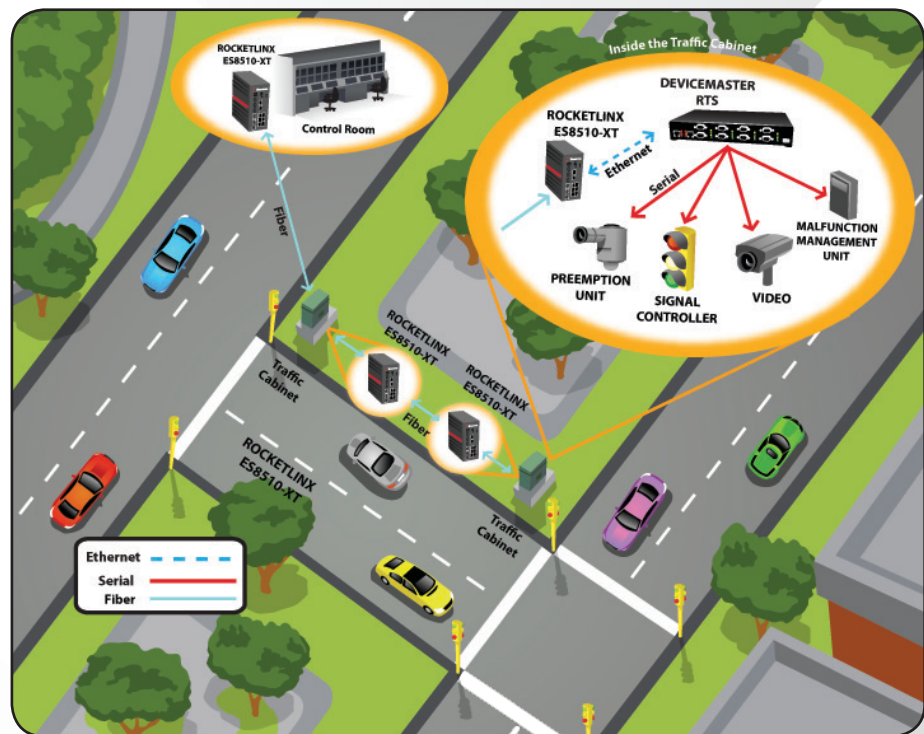# RocketLinx ES8510-XT provides a reliable networking solution for traffic intersections

Recently a southwestern U.S. city with a fiber network needed to reliably network and remotely manage 120 traffic intersections from the city's traffic management center. Before choosing a managed Ethernet switch to implement into their system, the city had to take into consideration a number of other requirements that needed to be met.

A gigabit fiber backbone was required due to the bandwidth needed for streaming live video. Video streaming, signal controllers, conflict monitors, pre-emption detectors, and all other Ethernet connected devices needed to have 100% uptime. The city also needed an Ethernet switch that was flexible and had the ability to support single and multi-mode fiber due to the different communication mediums between the intersections. Finally, due to the extreme temperature environments within a traffic cabinet, the managed Ethernet switch they chose had to be NEMA TS2 compliant, supporting a -40° to 74° C temperature range. With all of these requirements in place the city searched for a managed Layer 2 field Ethernet switch that would meet the certification requirements requested and would provide multiple fiber uplink ports.

Comtrol's RocketLinx ES8510-XT, a hardened NEMA TS2 certified managed switch, was selected by the city because it met all of the system requirements and provided the reliability they were looking for. The RocketLinx ES8510-XT switches were mounted in to the traffic cabinets at each of the intersections and were a perfect fit for the harsh environmental demands within each cabinet. The city engineer also needed the Ethernet switch to support up to three fiber/Ethernet connections due to a number of locations that have two intersections connecting to a single intersection. The three SFP and three copper uplink ports provided the ability to connect three intersections together which was not considered feasible by the traffic engineer before evaluating the RocketLinx ES8510-XT.

The rugged, aluminum IP31 rated, RocketLinx ES8510-XT was able to fulfill and exceed the needs that this city required for the traffic intersection project.

For information on Comtrol's RocketLinx™ and DeviceMaster® products visit www.comtrol.com/rocketlinx and www.comtrol.com/devicemaster.

ROCKETLINX ES8510-XT HIGHLIGHTS

- Multiple redundant ring (recovery time <5ms)
- 7 10/100BASE-TX ports and 3 Gigabit RJ45/SFP combo ports (10/100/1000 BASE-TX, 100BASE-FX, 1000BASE-X)
- 32Gbps non-blocking, 8K MAC address table
- 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 feature supports IP security, port security, DHCP server, IP and MAC binding, 802.1x network access control
- Event notification by email, SNMP trap, syslog, digital input and relay output
- -40º to +74º C operating temperature for extreme environments
- Rigid aluminum IP31 housing, excellent heat dispersion, redundant power, DIN-rail/wall-mount installation
- NEMA TS2 compliant

NEMA CERTIFIED TS2

COMTROL®

ORDERING INFORMATION

32061-6 RocketLinx ES8510-XT

PRODUCT SUPPORT & SERVICE INFORMATION

Warranty Information
Comtrol offers a 30-day satisfaction guarantee and 5-year limited warranty.

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