# COMTROL'S DEVICEMASTER RTS CONTROLS EMERGENCY TRAFFIC SIGNALS

The DeviceMaster RTS is giving the green light to emergency vehicles in St. Louis, Missouri.

The city's Department of Public Safety created a plan to install and monitor a Traffic Signal Preemption System on selected intersections. This system allows an emergency vehicle to override the normal traffic signal operation to display a green light. The system's goal is to allow emergency vehicles to arrive on scene quicker and to reduce the risk of accidents along the way.* All components of the system must perform reliably in the harsh environment of the roadside cabinets. To utilize the new system effectively with all the provided features. the system was required to use the existing Ethernet backbone for control and management.

Brown Traffic Products, Inc. was selected by the contractor to furnish all hardware and system integration for the system in St. Louis. Approximately 100 DeviceMaster RTS 1-Port units were installed in the project. As fire and other emergency vehicles approach a controlled intersection, the emergency vehicle sends an optical strobe signal. This signal alerts the intersection controller that the vehicle is coming and needs the right of way. It also identifies the specific vehicle and its emergency priority class.
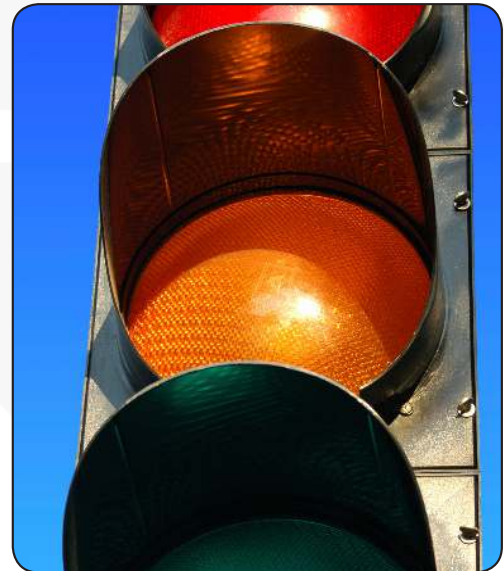
The Comtrol DeviceMaster not only reliably connects the devices to the Ethernet, the DeviceMaster's Ethernet gateway communicates information between the street grid and central office using:

   • Real-time Communication and Control—Unique street
environment data is communicated to the office, and management can control adjustments instantly.

   • Management Information Gathering—The identity of the emergency vehicles, their direction and time, is logged for traffic and public safety management.

The DeviceMaster connection is used to transfer the valuable information to the central system to generate meaningful management reports.

The preemption system goes beyond a self-contained operation at each intersection. It reduces operation costs and enhances management value by connecting the Tomar Electronic Inc.'s optical preemption units to the central transportation management office via the DeviceMaster RTS Ethernet gateway. "Brown Traffic Products selected the DeviceMaster RTS 1-Port to provide serial device connectivity to the existing Ethernet backbone in the St. Louis street grid because of DeviceMaster's versatility, reliability, ease-of-use, and cost effectiveness, said" Candy Rivelli from Traffic Systems Solutions.

*Five Year Consolidated Plan Strategy of the St. Louis Dept. of Public Safety 2006.
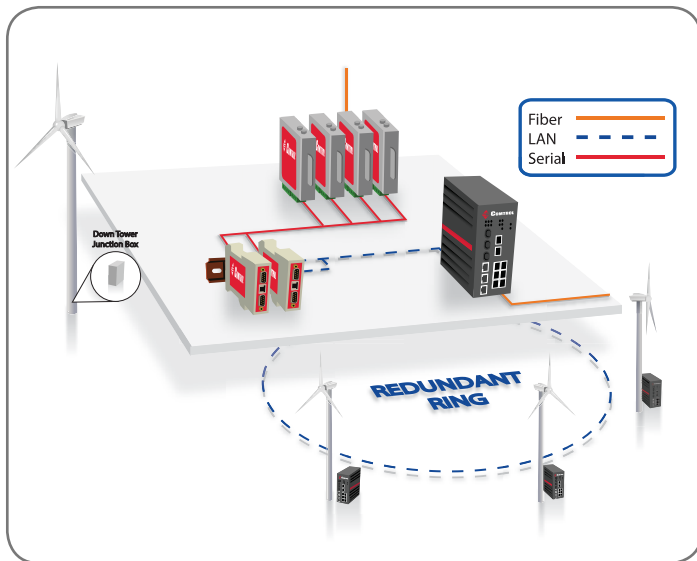
**connect. communicate. control.**

# DeviceMaster ® *Serial to Ethernet Device Servers*

The DeviceMaster® family of serial to Ethernet device servers enable superior device networking capabilities. Connect RS-232/422/485 serial devices to the network with DeviceMaster using your existing software applications. Supports native COM, TTY, or TCP/IP socket communications. Comtrol's DeviceMaster products feature enhanced security offering SSL & SSH management and SSL serial data stream encryption.

DeviceMaster, offers the industry's most extensive selection of products for network-enabling serial devices. Ranging from 1-port models that provide single-device networking to 32-port models that offer high-density connections for specialized applications.

The standard 1, 2, 4, and 8 port DeviceMaster RTS and PRO products are also NEMA TS2 compliant, withstanding temperatures ranging from -34° to 74° degrees Celsius, at no additional cost. The DeviceMaster has been ruggedized to handle extreme temperatures, operating voltage and humidity fluctuation, vibration and shock commonly experienced in severe outdoor environments.

**DeviceMaster RTS** DeviceMaster RTS is designed for device networking versatility. The RTS offers software-selectable ports (RS-232/422/485) as well as the ability to host local embedded programs that are commonly used for intermediate serial data processing, protocol conversion, and other data-centric applications.

## DEVICEMASTER APPLICATIONS

Comtrol's DeviceMaster products provide intelligent, ruggedized communication solutions in these core markets:

- Traffic and Transportation
- Industrial Automation
- Government and Defense
- Power and Utilities
- Security
- Broadcast
- Medical
- Gaming