

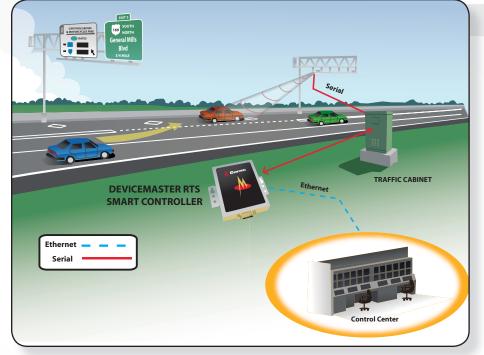
## CUSTOMER SUCCESS STORY

## **DeviceMaster Plays an Integral Part in MNPass Tolling System**

The U.S. Department of Transportation's Urban Partnership Agreement awarded Minnesota DOT the funds needed in order to improve traffic flow on I-35W to and from downtown Minneapolis. The project consisted of retrofitting existing high-occupancy vehicle (HOV) lanes with technology that would enable single occupant vehicles to use the HOV lanes for a toll.

Upon completion, the toll lane needed to be dynamically priced, meaning the toll rate would increase as traffic on the main lanes increased. This would allow vehicles traveling in the highoccupancy toll (HOT) lane to maintain a speed of 55 MPH at all times no matter how congested the main lanes were. In order to become a HOT lane user, a driver must open a MNPass account. Upon registering the driver would recieve an RFID toll tag that is to be placed in the vehicle. This is how the driver is charged for the use of the HOT lane.

A piece of this project required MN DOT to Ethernet connect all of the toll tag readers along the I-35W corridor, while the actual readers communicated



using serial technology, creating the need for a serial-to-Ethernet converter that could convert the serial output of the reader to Ethernet. Along with this connection requirement, the port server chosen needed to withstand the freezing winter temperatures and the hot and humid summer temperatures. With these two requirements in mind, MN DOT searched and tested port servers from many different companies.

Comtrol's DeviceMaster RTS 1-port was chosen to be implemented into this project reliably providing an Ethernet connection between all the toll tag readers along the I-35W corridor. The DeviceMaster is able to gather the serial information from each toll tag reader and send it out via Ethernet to the main control center where the information is managed. The DeviceMaster is also able to withstand a wide -37° to 74°C operating temperature, all at a cost-effective price, making it the perfect fit for this project.

## For information on Comtrol's DeviceMaster®, visit www.comtrol.com/devicemaster.

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