LANTRONIX®

INDUSTRY:

Transportation

Lantronix Provides Intelligent Transportation System (ITS) for New York City

Success Highlights

- Implementation of smart city IoT technology
- Use of TAA-compliant Power-over-Ethernet Plus Switches
- Ability to remotely reboot or manage 10,000+ traffic intersections
- Collection of vital traffic information
- Reduced maintenance and repair costs
- Software with interactive maps to view and access all connected devices

Case Study Overview

Today, intersections have much more than just traffic signals. They also have technology to assess traffic congestion, safety and pedestrian counts as well as monitor trends to improve service. The New York City Department of Transportation (NYDOT) needed actionable intelligence to increase their Smart City IoT solutions.

To implement the necessary solution, the NYDOT turned to Lantronix to deploy technology that would connect and power cameras and sensors at more than 10,000 traffic intersections as well as collect vital traffic information. In addition, key features of the Lantronix switches save the NYDOT time and maintenance costs.

> " Lantronix is highly committed to helping implement new Intelligent Transportation Systems and Smart City Initiatives worldwide. "
>
> – Paul Pickle, CEO, Lantronix

CHALLENGE

The NYDOT was challenged with finding an ITS solution that would enable the transportation agency team to remotely manage more than 10,000 traffic intersections in busy New York City. Prior to installing the Lantronix solution, the team needed to dispatch a technician to evaluate each issue, deploy a bucket truck to reach the device and send out a team to make repairs on-site. Repairs generally required the intersections to be closed, causing significant stress and traffic delays. In some cases, the solution was a quick fix, but prior to installing the Lantronix solution, there was no way for the NYDOT to remotely evaluate the situation.

Lantronix Managed Hardened Gigabit Ethernet PoE+ Switch

The SISPM1040-384-LRT-C is a managed PoE+ switch suitable for connecting and powering devices in hardened environments.
The switch can:

- Supply up to 30 Watts per port on all (8) ports simultaneously.
- Include the embedded Device Management System (DMS) software that provides the advanced tools necessary for total management of all IP addressable devices.

The unique DMS provides security integrators with lower overall cost, less downtime and easier management of the entire PoE+ network.

www.lantronix.com/products/sispm1040-384-lrt-c-2/

SOLUTION: Lantronix Managed Hardened Gigabit Ethernet PoE+ Switches

The NYDOT chose Lantronix's TAA-compliant Managed Hardened Gigabit Ethernet Power-Over-Ethernet Plus (PoE+) Switches to bring intelligent transportation infrastructure citywide and reinforce the relevance and timeliness of Lantronix's smart city Internet of Things (IoT) solutions.

The switches' Auto Power Reset (APR) feature provides the ability to remotely reboot or manage the connected devices, such as the cameras, addressing intersection technology issues within minutes and eliminating lane closure requirements. In addition, Lantronix's Device Management System (DMS) software creates an interactive map to see all connected devices, enabling the agency to pinpoint issues quickly and take necessary action.

> ❝ **Installing smart devices across cities allows transit agencies to enact changes that improve safety and traffic flow. Lantronix's solutions provide the power and connectivity to make it all possible.** ❞
>
> – Jacques Issa, VP of Marketing, Lantronix

RESULTS: Lantronix Solution Powers and Connects 10,000+ Traffic Intersections

Lantronix's PoE+ switches provide power and remote access to more than 10,000 traffic intersections in New York City. The NYDOT can now remotely collect vital traffic information needed to monitor trends and improve service as well assess safety needs. By connecting and powering the traffic intersections' cameras and sensors, NYDOT can troubleshoot and solve problems remotely, reducing significant stress to motorists caused by lane closures and traffic delays.

Benefits Include:

- Connected cameras and sensors at more than 10,000 traffic intersections
- Enabled the collection of vital traffic information
- Provided Auto Power Reset to remotely reboot the cameras and sensors
- Reduced the need for deploying repair technicians, saving time and maintenance costs
- Reduced the need for lane closures and traffic delays

Lantronix: The Approved Solution for Smart Cities

1 More than 30 years of proven experience with federal, state and local governments

2 Strong, long-term partnerships with national VMS providers

3 Custom engineering services that speed development time

4 Expertise in software systems that provide total management of all connected network elements

5 Proven source for reliable, built-to-perform hybrid fiber/copper network integration solutions

Lantronix Device Management System (DMS) Software

The Lantronix (DMS) software provides a unique set of value-added features and capabilities that provide security integrators with lower overall cost, less downtime, and easier management and maintenance of the entire PoE+ network. The DMS software is currently available on most enterprise and hardened switches.

DMS has been an important function for several smart city projects, including an installation at New York City's Brooklyn Bridge.

About Lantronix

Lantronix Inc. is a global provider of secure turnkey solutions for the Internet of Things (IoT) and Remote Environment Management (REM), offering Software as a Service (SaaS), connectivity services, engineering services and intelligent hardware.

LANTRONIX®

lantronix.com/about-us/contact/