



# The Solution to Your Smart City IoT Design Needs

## 10 Reasons Why Customers Choose Lantronix

- 1 More than 30 years of proven experience with federal, state and local governments
- 2 Strong, long-term partnerships with national VMS providers
- 3 Experts in cost-effective fiber integration with any data network
- 4 Trusted government partner, offering TAA-compliant products
- 5 Proven source for reliable, built-to-perform hybrid fiber/copper network integration solutions
- 6 High-quality products & exceptional service to more than 70 countries
- 7 Expertise in software systems that provide total management of all connected network elements
- 8 Turn-key solutions for a variety of applications
- 9 Custom engineering services that speed development time
- 10 Proven success with millions of installations in Industrial & Smart City IoT applications

## Parking Lot Monitoring Solution

### CHALLENGE: Power Outdoor Advanced Camera-Based Sensing System

Park Assist needed to power and manage their advanced camera-based sensing system monitoring more than 15,000 parking spaces at the Mall of America. The outdoor and high-perched cameras added another layer of difficulty to this project.

### SOLUTION: Lantronix SESPM1040-541-LT Series Switch

Park Assist selected Lantronix's flagship smart city switch, the Self-Enclosed Managed Hardened Gigabit Ethernet PoE++ Switch (SESPM) for its compact size, form factor and flexibility. With a new, optional 24V Passive PoE Module installed safely and securely inside the SESPM, the switch can also power the 24VDC wireless system.

### RESULTS: Power Solution With Reduced Time and Expense

In addition to simplifying the installation by providing power to both the IEEE PoE cameras and non-IEEE-compliant radios, the SESPM also reduces Park Assist's time and expense challenges of maintaining the powered devices connected to the switch.

To view the complete case study, scan code with smartphone.



“Lantronix delivers robust end-to-end solutions that empower smart cities to advance their physical and virtual security today and into the future.”

– Jacques Issa, VP of Marketing, Lantronix



### Lantronix SESPM1040-541-LT Series

SESPM1040-541-LT-xx Switch is a Layer 2 managed switch with (4) 10/100/1000Base-T IEEE 802.3bt compliant PoE++ ports and (1) combination 10/100/1000Base-T RJ-45 or 100/1000Base-X SFP port (additional optional ports available) that is ideal for use in security and surveillance, PoE lighting, digital signage and many other applications.

For more information, contact:  
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## Smart City Solution

### CHALLENGE: Create an Automated License Plate Reader Solution

Flock Safety wanted to build a system that would capture the license plate evidence needed to solve non-violent neighborhood crime.

### SOLUTION: Lantronix Open-Q 624A SOM

Utilizing Lantronix's Open-Q 624A SOM, its Open-Q 624A Development Kit and a custom carrier board designed by Lantronix's engineers, the Flock Safety team was able to quickly and cost-effectively build a purpose-built core platform for its safety system.

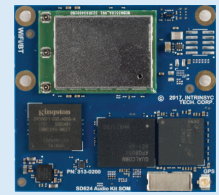


### RESULTS: Flock Safety Cameras Fight Crime With Technology

With the help of Lantronix's engineering team and products, the Flock Safety design team created its breakthrough ALPR solution that combines powerful processing with security. Each camera can capture the license plates of 15,000 vehicles per day and send real-time alerts to law enforcement with information including the license plate number, state, color of the car and if it is on the FBI's NCIC list of stolen vehicles.



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### Lantronix Open-Q 624A SOM

The Lantronix Open-Q 624A SOM is a feature-rich, Android™-powered, production-ready module based on the Qualcomm® 624 processor. Its small form factor, highend Wi-Fi®/BT and extensive peripheral I/O make it ideal for applications that require cloud connectivity and edge compute capabilities.

The SOM is a perfect solution for creating next-gen home hub products requiring video conferencing, remote video monitoring, movie and video streaming.

## Elevator Ethernet Solution

### CHALLENGE: Provide Ethernet Access in Hospital Elevators

A major, multi-building Texas hospital needed wireless coverage for its medical staff while in elevators. Too costly to rewire the elevator cabling or install new elevators, the hospital needed a solution that would connect the elevators to Ethernet and power a wireless access point.

### SOLUTION: Lantronix Ethernet Over Coax Extenders

The Lantronix Ethernet Over Coax Extenders With PoE+ offered the right solution for this application to connect to the Ethernet and power the wireless access points via Power over Ethernet. This solution was able to make use of existing cabling while being able to overcome the 100-meter limitation of Ethernet Cabling.

### RESULTS: Network and Power Extension

Lantronix Ethernet Over Coax Extenders allowed the hospital's medical staff to stay connected with other staff and patients without dropping important communications once they entered a hospital elevator. The solution leveraged existing coaxial cabling, extending the network and providing power for access points, security cameras or other IP devices.



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### Ethernet Over Coax Extender With PoE+

Lantronix Ethernet Over Coax Extender With PoE+ allows quick and easy upgrades of older analog surveillance systems with modern PoE powered IP video cameras without the need to replace the wiring infrastructure. These products leverage the existing CCTV 75 ohm coax infrastructure to extend the Ethernet network and provide power to remote camera locations, saving time and money over installing new cable.

### About Lantronix

Lantronix is a global provider of Software as a Service (SaaS), engineering services and hardware for Edge Computing, the Internet of Things (IoT) and Remote Environment Management (REM). Lantronix enables its customers to provide reliable and secure solutions while accelerating time to market.

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