

PoE+ ROUTER FOR SIMPLIFIED URBAN SURVEILLANCE SETUP

HIGHLIGHTS

- Urban surveillance systems often prioritize traffic and building perimeters, with only 8% of cameras in parks or recreation areas — leaving these public spaces under-monitored and more vulnerable to crime.
- The RUT951 PoE+ router delivers data and power at the same time, streamlining deployments and eliminating the need for separate power lines. Ideal for remote sites without existing infrastructure.
- Integration with Teltonika RMS ensures real-time monitoring, remote access, and minimal maintenance requirements.

THE CHALLENGE – ESTABLISHING SURVEILLANCE IN URBAN BLIND SPOTS

Urban surveillance systems are often optimized for monitoring traffic flow and building perimeters where fixed infrastructure is typically present. However, public spaces such as parks, city squares, recreational zones, and remote footpaths remain largely overlooked.

These are precisely the environments where real-time visibility can enhance public safety and serve as a deterrent to unlawful activity as this policing service report shows.

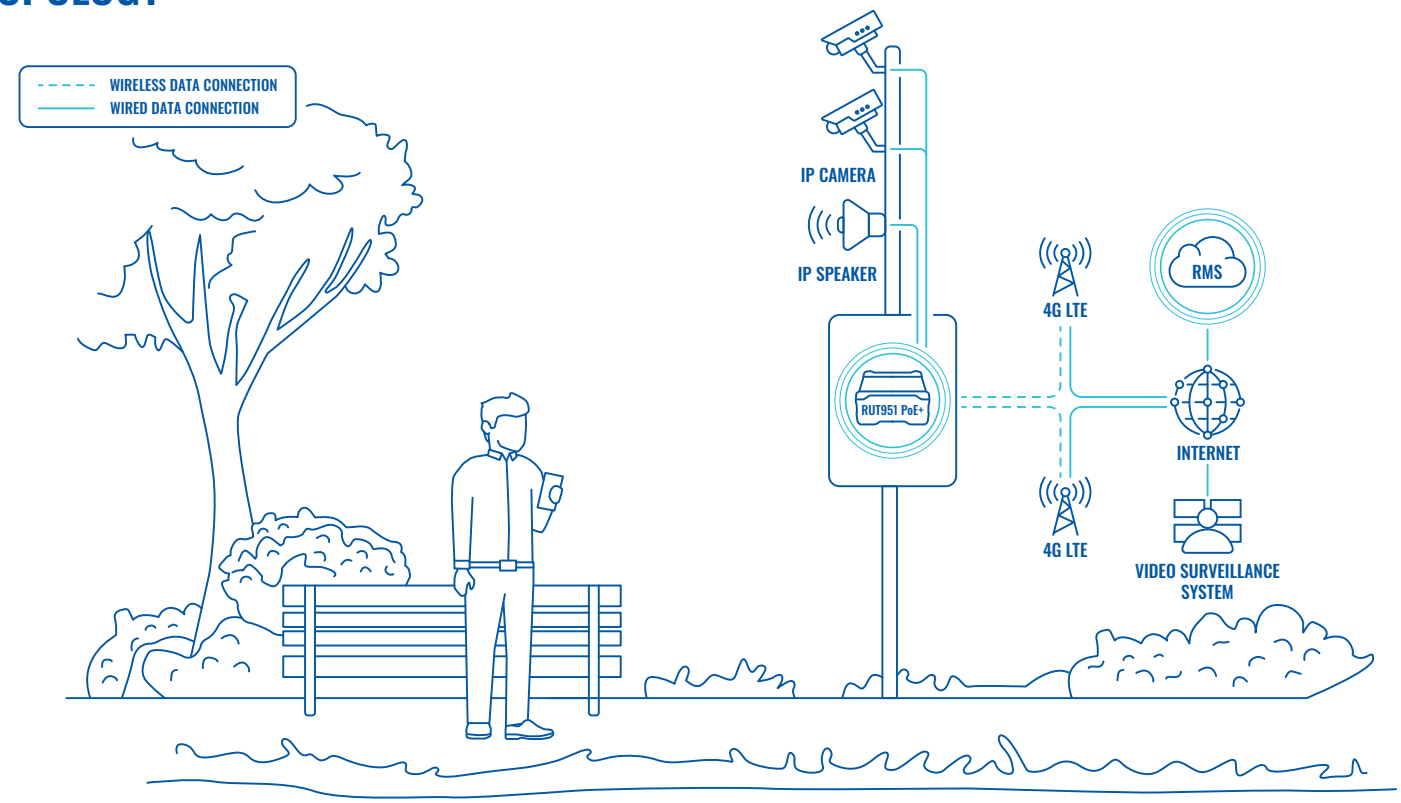
Installing surveillance infrastructure in such areas is not a straightforward task. They frequently lack power lines, fixed internet access, or mounting options, and building new infrastructure from scratch is both time-consuming and costly.

With increasing demands for smart, connected cities, municipalities are under pressure to find scalable surveillance solutions that can be deployed quickly, operate independently of fixed infrastructure, and be maintained with minimal manual intervention.

In short, the main challenge is to establish a reliable, cost-effective monitoring system in public or remote areas without relying on conventional connectivity and power sources — and to do so in a timely manner.

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TOPOLOGY



THE SOLUTION – UNIFYING POWER & DATA FOR ENDLESS COVERAGE

To overcome the challenges of limited power, connectivity, and complex installations in remote areas, the Teltonika RUT951 PoE+ router offers a mobile and easily deployable solution. This 4G router with LTE Cat 4 connectivity enables easy deployment virtually anywhere with cellular coverage. It delivers the bandwidth needed for high-quality CCTV streaming and real-time communication without relying on wired infrastructure.

The RUT951 PoE+ router connects to CCTV cameras for video surveillance and IP speakers for public announcements or emergency alerts, while providing both network connectivity and power at the same time.

This combined power and data transmission is enabled by one of the core router's features—PoE+ (Power over Ethernet) capability. This feature transmits power and data through a single cable, eliminating the need for separate power lines and reducing installation complexity.

The device features one PoE-in and three PoE-out ports—each PoE-out port delivering up to 30 W, with a total power budget of 90 W. The result is faster setup, lower equipment costs, and a cleaner physical layout—all essential for temporary or remote surveillance stations.

The RUT951 dual SIM router is designed to operate in areas with no wired infrastructure, withstand high temperatures, and provide reliable connectivity with automatic failover.

The SGP.22 standard eSIM with up to 7 profiles lets you store multiple mobile plans on one device and switch between them seamlessly. This boosts flexibility for deployments in different regions and ensures reliable connectivity without needing physical SIM swaps.

Additionally, integration with Remote Management System (RMS) ensures continuous visibility, remote troubleshooting, and incident alerts, over the deployed system without the need for on-site personnel interference.

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Studies show that public CCTV presence contributes to substantial crime deterrence— with some analyses indicating crime rate reductions of up to 47.4% in monitored areas. Additionally, using an industrial router enhances solution security through support for encrypted VPN connections, firewall protection, and robust authentication mechanisms.

Looking for a flexible cellular router solution tailored to your project? Contact our team of experts today to explore how Teltonika can support your IoT projects, even in the most challenging environments.

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