



Sonoma County Enhances Fire Detection Surveillance

LinkPower™ LPS3400ATMP-400-T1



In the face of California's growing wildfire risks, Sonoma County sought a resilient, high-performance networking solution to enhance its fire detection surveillance system. This case study highlights how the county leveraged Inscope Data's LinkPower™ LPS3400ATMP-400-T1 — a contract-grade, high-power PoE switch in a weather-proof enclosure — to deliver uninterrupted connectivity for infrared cameras and wireless equipment across rugged, fire-prone terrain.



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The Need

To address the increasing threat of wildfires, Sonoma County needed a dependable outdoor PoE network for its fire detection surveillance system. The system uses infrared cameras and wireless communication devices to monitor high-risk zones in real time.

Given the rugged terrain and extreme environmental conditions, the county needed a solution capable of delivering high power output to multiple devices while

withstanding dust, moisture, and wide temperature fluctuations. Reliability was essential to support critical applications such as surveillance, communications, and public safety systems.

They also required remote management features to minimize costly site visits and downtime, along with advanced Layer 2+ switching for greater control of the network. With capabilities such as VLAN management, traffic prioritization, and enhanced security, the solution would ensure scalability, stability, and long-term performance in demanding outdoor environments.

The Solution

Sonoma County deployed the LinkPower™ LPS3400ATMP-400-T1, a rugged 6-port high-power PoE++ Layer 2+ managed switch with two SFP uplink ports. Each port delivers up to 90W (802.3bt) with a total PoE budget of 400W.

Designed for harsh environments, its IP68-rated enclosure protects against water, dust, and wildfire-prone conditions. Dual power input (110–240V AC or 48V DC) supports flexible, remote deployments.

Advanced Layer 2+ features—VLAN, Link Aggregation, QoS, and Trunking—ensure bandwidth efficiency and network stability, while remote management reduces maintenance costs.

Results

By integrating Inscope Data's LPS3400ATMP-400-T1, Sonoma County successfully enhanced its fire detection surveillance system. The deployment of this high-power PoE switch has enabled uninterrupted connectivity for infrared cameras and communication infrastructure, strengthening the county's ability to detect, monitor, and respond to wildfires in real time.



Download Product Datasheet:



Product Information Online: <http://www.inscapedata.com>

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