Advanced Network Performance for Video Surveillance Systems

Surveillance systems play a vital role in enhancing security and operational efficiency in many industrial applications. The slim and rugged SDS-3000/G3000 Series smart switches offer a highly cost-effective means to ensure stable system operations with minimal effort.

High Power Supply

Up to 8 PoE ports capable of providing up to 36 W per port to power more power-hungry PDs (powered devices)

Superior Network Performance

Full Gigabit bandwidth with SFP options for fast, long-distance transmissions of video data

Remote Operational Efficiency

Smart PoE software to perform remote management and status monitoring, including device failure checks for automatic error handling

Do Things Smartly With Moxa's Smart Switches

Our comprehensive smart switch portfolio provides the simplicity and necessary features OT engineers need to maintain reliable operations in a variety of automation applications.

SDS-3000/G3000 Series

6/8/10/16-port Industrial Smart Ethernet Switches

- 6/8/10/16-port Fast Ethernet and full Gigabit models with SFP options
- Up to 8 PoE ports with up to 36 W power output per port (PoE models)
- Supports the EtherNet/IP, PROFINET, and Modbus TCP industrial protocols
- Supports RSTP, STP, and MRP redundancy protocols for enhanced reliability
- Intuitive web interface for easy configuration and monitoring
- Security features based on the IEC 62443 standard

MOXA®

Remote Video Surveillance for Factory Automation

Why Moxa

- Full Gigabit PoE models with up to 8 PoE ports to power IP cameras delivering up to 36 W of PoE power per port

- Built-in Smart PoE software enables monitoring, diagnostics, and recovery of remote PDs

- Multiple models with SFP options to enable long-distance data transmissions

Product Showcase

SDS-G3000 Series
Industrial Gigabit PoE Smart Ethernet Switches

- Up to 10-port full Gigabit PoE switches with up to 8 PoE ports

- Security features based on IEC 62443 standard

- Smart PoE software for easy PoE network links, diagnostics, and monitoring

- Intuitive web interface for easy device configuration, monitoring, and management

- Ultra-compact design with multiple mounting options for more flexibility when installing in confined spaces

A large material handling company sought to deploy a comprehensive surveillance system for multiple new centrally controlled plants in different locations. High-speed video transmissions for remote diagnostics and monitoring was a key requirement to ensure operational safety, security, and efficiency.
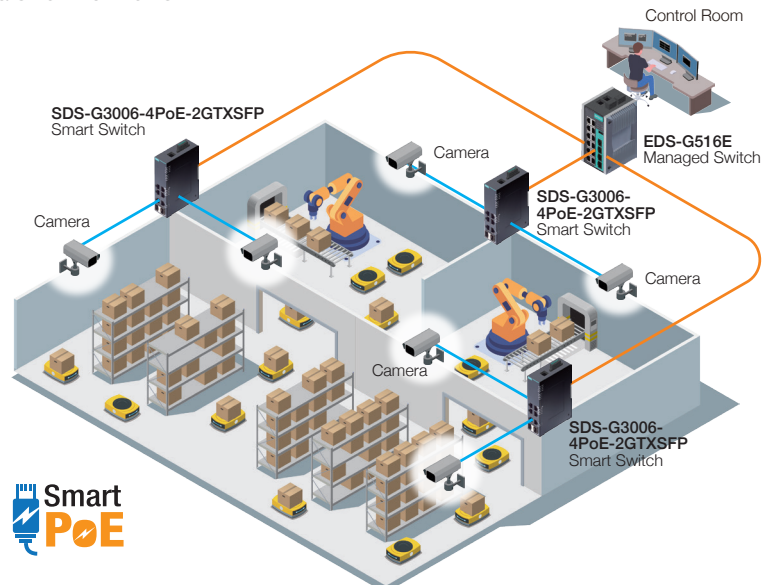
System Requirements

- PoE capabilities with sufficient power to simplify the deployment of surveillance devices within the existing plant

- Support for remote network monitoring and troubleshooting for operational efficiency

- Network devices capable of long-distance data transmissions across different plants

Moxa Solutions

Surveillance systems play a vital role in enhancing security and operational efficiency of the manufacturing plant. Reliable network connectivity ensures seamless and stable transmission of video data from IP cameras back to the control center for remote monitoring and diagnostics.

The SDS-G3000 Series Gigabit PoE smart switches offer 1 Gbps bandwidth and up to two fiber uplink ports for long-distance video transfers, making them ideal for large-scale installations. These switches transport both power and data over a single network line, eliminating the need for an individual power supply for each camera or a traditional power box. This reduces cabling complexity and minimizes installation costs. With the built-in Smart PoE software, engineers can monitor the status of connected PDs (powered devices) and set automatic actions, such as auto failure checks and recovery actions. This helps ensure network reliability and reduces management efforts. The SDS-G3000 Series can deliver up to 36 W of PoE power per port and supports a high-power output mode to temporarily supply peak power. In addition, these industry-certified smart switches feature a rugged IP40 design and a -40 to 75°C wide operating temperature range, making them perfect for outdoor or harsh environments.

Control Room

SDS-G3006-4PoE-2GTXSFP
Smart Switch

Camera

EDS-G516E
Managed Switch

SDS-G3006-4PoE-2GTXSFP
Smart Switch

Camera

Camera

Camera

Camera

SDS-G3006-4PoE-2GTXSFP
Smart Switch

Smart PoE

MOXA®

Your Trusted Partner in Automation

Moxa is a leading provider of edge connectivity, industrial computing, and network infrastructure solutions for enabling connectivity for the Industrial Internet of Things (IIoT). With 35 years of industry experience, Moxa has connected more than 102 million devices worldwide and has a distribution and service network that reaches customers in more than 85 countries. Moxa delivers lasting business value by empowering industries with reliable networks and sincere service. Information about Moxa's solutions is available at www.moxa.com.

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