



TRILINK

TRILINK TL-SW8P-2U1S

8-Port Uplink Gigabit AI-Enhanced PoE Switch

Product Overview

The **TRILINK TL-SW8P-2U1S** is a compact, enterprise-grade **AI-Enhanced PoE switch** engineered for professional surveillance and networking deployments.

It delivers reliable power and data via **8 PoE Fast Ethernet ports**, complemented by **2 Gigabit uplink ports** and **1 Gigabit SFP uplink** for high-speed backbone connectivity.

Designed for stability, security, and long-distance transmission, this model is ideal for **CCTV systems, offices, retail environments, and access control installations.**

Key Features

- **8 × 10/100 Mbps PoE RJ45 ports**
- **2 × 10/100/1000 Mbps Gigabit RJ45 uplink ports**
- **1 × Gigabit SFP uplink port**
- **IEEE 802.3af / 802.3at compliant**
- **Total PoE power budget: 120W**
- **Up to 30W PoE output per port**
- **AI Watchdog automatic device recovery**
- **250 m long-distance PoE extend mode**
- **One-key VLAN isolation**
- **6KV lightning protection**
- **Metal housing, fanless design**



AI & Intelligent Management Functions

AI Watchdog Protection

Automatically detects unresponsive PoE devices and restarts power to restore operation without manual intervention.

VLAN Isolation Mode

One-key VLAN isolation separates PoE ports from each other while maintaining uplink connectivity, improving network security and stability.

Long-Distance PoE (Extend Mode)

Supports PoE transmission up to 250 meters, ideal for parking areas and long corridors.

Technical Specifications

Hardware Specifications

Item	Description
Model	TL-SW8P-2U1S
PoE Ports	8 × 10/100 Mbps RJ45
Uplink Ports	2 × 10/100/1000 Mbps RJ45
SFP Port	1 × Gigabit SFP
PoE Standard	IEEE 802.3af / IEEE 802.3at
Max PoE Output (Per Port)	30W
Total PoE Power Budget	120W
MAC Address Table	8K
Switching Method	Store-and-Forward
Lightning Protection	6KV (per port)

Power Specifications

Item	Description
Power Input	AC 110–240V, 50/60Hz
PoE Output Voltage	52V
Protection	Overload & short-circuit protection

Physical & Environment

Item	Description
Housing	Metal
Installation	Desktop / Wall-mount
Operating Temperature	-10°C to +55°C
Storage Temperature	-40°C to +70°C
Operating Humidity	10% – 90% (non-condensing)
Warranty	1 year

Package Contents

Item	Description
8 Port Poe Switch	1
Power Adapter	1
Mounting Accessories	1 Set
User Manual	1

Applications

- IP CCTV systems
- wireless access points
- IP phones
- office networks

Product Detail



Application Diagram

