level one®

GEP-1023 Series

10-Port Gigabit PoE Switch

User's Manual

FCC Warning

This GEP-1023 Series has been tested and found to comply with limits for a Class A digital device, pursuant to Part 15 of FCC Rules.   These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.   This equipment generates and radiates radio frequency energy and, if not installed and used in accordance with the user's manual, it may cause interference in which case users will be required to correct interference at their own expenses.

CE Warning

This is a Class A product.   In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Introduction

This GEP-1023 Series provides 8 10/100/1000M ports with 2 port SFP. It is designed for easy installation and high performance in an environment where traffic is on the network and the number of users increases continuously.

It consists of 8 PSE/PoE ports. That can solve the limitation of the power outlet location and offer the system designer a flexible solution to locate the network device everywhere.

The device size is specifically designed for medium to large workgroups. The Switch can be installed where space is limited; moreover it provides smooth network migration and easy upgrade to network capacity. The PoE switch can be wall-mounted.

Package Contents

Before you start to install this switch, please verify your package that contains the following items:

- One PoE Gigabit Ethernet Switch
- One Power Adaptor
- One User's Manual

Note: If any of these items is found missing or damaged, please contact your local supplier for replacement.

Key Features

- 8 Port 10/100/1000M Nway (Auto-negotiation) Switch
- 8 PSE/PoE function ports
- Supporting the power Max. 30W for each PSE/PoE port
- Compact size
- Auto-learn of networking configurations
- Auto-detect full/half-duplex modes for any port
- Dedicated full-duplex 2000Mbps bandwidth
- Store-and-Forward switching methods
- IEEE 802.3x flow control for full-duplex and back-pressure flow control for half-duplex
- Non-blocking & Non-head-of-line blocking full wire speed forwarding
- Auto-MDI/MDI-X function for any port
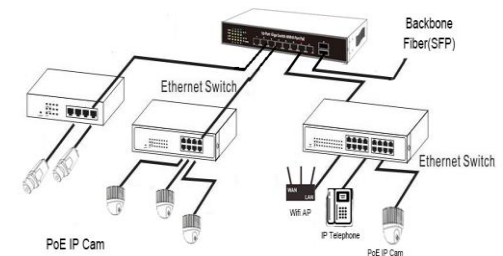- Smart plug & play

Front Panel (LEDs)

LED Indicators of 8 Port PoE Gigabit And 2 Ports Fiber LAN Switch

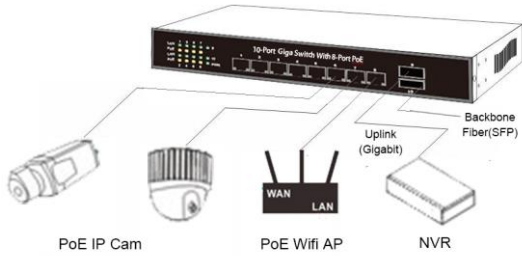| LED	Color	Function
LAN 1~10	Green	**Lights**: Indicates the link is successfully established at 1000Mbps **Blinks:** Indicates the link is actively sending or receiving data
	Amber	**Lights**: Indicates the link is successfully established at 10/100Mbps **Blinks:** Indicates the link is actively sending or receiving data
PoE 1~8	Amber	Indicates the port is providing DC power.

Connections

Switch/Hub to this 8 Port PoE Gigabit Ethernet Switch with 2 Port SFP

This GEP-1023 Series provides automatic crossover detection functionality for any port. It is simple and friendly to up-link to another switch without crossover cable.

PC/Other devices to this 8 Ports Gigabit Ethernet Switch

Via a twisted pair cable straight through, this switch can be connected to PCs, servers and other network devices.

Power Device to this 8+2 Port PoE Gigabit Ethernet Switch and getting 56V power source through Cat. 5 cables

Using Cat. 5 twisted-pair cable to connect Power Device to the port 1~8 of this switch, and then this switch will supply 56V power to Power Device over Cat. 5 twisted-pair cable. Please be noted Power Device should also comply with IEEE 802.3at/af.

Rear Panel

DC input

AC input (100~240V/AC, 50~60Hz)
DC input (56V)

Technical Specifications

Standards	IEEE 802.3at/af IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab/z 1000BaseTX IEEE 802.3x Flow control
Features	Number of Ports: 8 PSE/PoE Ports With 2 Ports SFP MAC Address: 8K Buffer Memory: 512KB Method: Store and Forward
Filtering/ Forwarding Rates	1000Mbps port - 1,488k pps 100Mbps port – 148,800pps 10Mbps – 14,880pps
Transmission Media	10BaseT Cat. 3, 4, 5 UTP/STP 100/1000BaseTX Cat. 5 UTP/STP
LED Indicators	Per Port: LAN PoE Per Unit: Power
Power Input	100~240V/AC, 50~60Hz
Power Output	56V/DC Per Port Output – 30 W Max Per Port 8 Ports at Full 30 W Output Supported
Power Consumption	65/90/120 W (Max)
Dimensions	215 × 122 × 44 mm (L x W x H)
Weight	0.85 kgs (device)
Operating Temperature	0 to 40℃
Storage Temperature	-20 to 70℃
Humidity	10 to 90% RH (non-condensing)
Certifications	FCC Class A, CE