DATASHETT

SWITCH 24 POE FAST + 2 UPLINK

GIGA/2 SFP 420W VLAN 250m

MODELLO: SW-UF24P2G2SV-063

Overview

The SW-UF24P2G2SV-063 provides 24 ports 10/100Mbps IEEE 802.3af/at Power over Ethernet with a total of 420 watts of PoE budget, which is an ideal solution to fulfill the demand of sufficient PoE power for network applications.

The SW-UF24P2G2SV-063 is an ideal solution for securing IP surveillance infrastructure. It provides both 802.3af/at PoE functions along with 24x10/100Base-TX ports featuring 15.4 watt 802.3af/30 watt 802.3at PoE in RJ-45 interface and extra 2-Combo uplink port: 10/100/1000Mbps RJ-45 or 100Base-X optical fiber port SFP to keep a cascade connection with another switch or NVR. For instance, one SW-UF24P2G2SV-063 can be combined with one 24 Channel NVR and 24 PoE IP camerras as a kit for the administrator to centrallu and efficiently manage the surveillance system in the local LAN and the remote site via internet.

With data and power over Ethernet from one unit, the SW-UF24P2G2SV-063 reduce cabling requirements and eliminates the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. A wire that carries both data and power can lower the installation costs, simplify the installation effortand eliminate the need for electricians or extension cords. Providing 24 interface, the SW-UF24P2G2SV-063 is ideal for small business and workgroups requiring deploying the PoE for the wireless access point, IP-based surveillance IP phone in any places easily, efficiently and cost-effectively.

Front panel

1. Rack-mounting ears: Cabinets for product installation or Wall installation

2. Power Indicator: Red Light on: with power; Light off: no power

3. PoE Indicator: Yellow Light on: when device is powered

Light off: when device is not detected or not powered

4. Link/ Act Indicator: Green LED on: link up off: link down blinks: data transfer

5. Reset Button: Whole machine will restart while press button

6. Uplink SFP port: Speed 1000Base-X, transfer data from PoE ports to other devices (NVR/Switch /ADSL)

7. Uplink Gigabit RJ45 port: Transfer data from PoE ports to other devices (NVR/Switch /ADSL)

7. Downlink port: Transfer data from other IP devices to the switch

Features

Comply with IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3az, IEEE802.3af/at standards

Support IEEE802.3x full-duplex flow control; support Auto MDI/MDIX

24 Ports support 48V-56VDC power to PoE powered devices

Provide 15.4W or 30W power to powered devices

2 Combo Uplink port: 10/100/1000Mbps RJ-45 or 1000Base-x optical fiber port SFP

420 watts PoE budget

PoE data & power transmission distance up to 100meters

Excellent anti-thunder, anti-static and anti-interference ability

Support 10K lenght Jumbo frame transmission

Restart function helps master IC reset whoolly

Built-in 420W power supply

Easy and convenient to use, plug & play, no need to configure

Galvanized housing for stable and durable working life

Rear panel

1. Input: AC 96~264V

2. Power Switch: Turn on with power, Turn off no power

3. Waiting Content

5. Ground Connection

6. Fuse: Max 10A

Quick Setup Guide

Step1: Begin with all input/output devices turned off with power cables removed

Step2: Connect RJ-45 port of PoE cameras with Downlink RJ-45 port of PoE switches in standard Cat 5e/6 cables

Step3: Connect with Uplink RJ-45 port of PoE switches with RJ-45 port of NVR or computer or other devices in standard Cat 5e/6 cables

Step4: Input AC power cord into power socket of PoE switch

Step5: Make sure above connection is properly finished, then turn on power

What is a Combo Port on an Ethernet Switch

A Gigabit Ethernet Combo port is an Ethernet port and a Mini-GBIC port (also called SFP's) that share the same switch fabric and port number. A Combo port is a way to provide different types of connectivity without taking up unused switch fabric. These Combo ports can also be labeled as tied, meaning two different physical ports that can only be used one at a time. A Gigabit Ethernet Combo port consists of one1000Base-T Gigabit over Copper port (provided), and one Mini-GBIC (empty port that requires Mini-GBIC module).
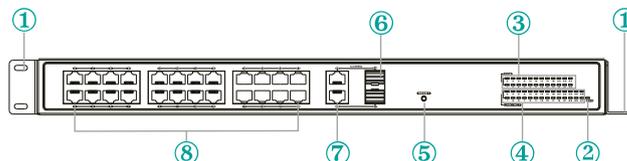
Note: If a Mini-GBIC port is being used, than the corresponding 1000Base-T copper port is automatically disable and vice versa.

What is SFP

(Small Form-factor pluggable). A small transceiver that plugs into the SFP port of a network switch and connector to Fibre Channel and Gigabit Ethernet (GbE) optical fiber cables at the other end. Superseding the GBIC transceiver, SFP modules are also called ˝mini-GBIC˝ due their smaller size. By choosing the appropriate SFP module, the same electrical port on the switch can connect to fibers of different type (multi mode singlemode) and different wavelengths. If the fiber is upgraded, the SFP module is replaced.
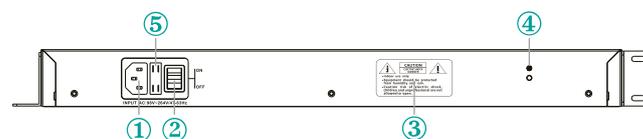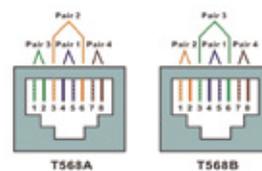
The SFP converts the serial electrical signals to serial signal and vice versa. SFP modules are hot swappable and contain ID and system information for the switch.

How to make a network cable

To create a network cable, you will first need the equipment listed below.

1. Cat5e, Cat6, or Cat7 cable

2. RJ-45 connectors

3. Crimping tool

3. Wire stripper or knife

The wire sequence of RJ45 connector must comply with internaonal standard of EIA/TIA 568A or EIA/TIA 568B.

	1	2	3	4	5	6	7	8
T568A	white greeen	greeen	white orange	blue	white blue	orange	white brown	brown
T568B	white orange	orange	white green	blue	white blue	green	white brown	brown

1. We recommend stripping at least a half of an inch offf the cable to expose the inner wires.

2. Separate the wires within the cable after the network cable jacket has been removed so that they can be put into the RJ-45 connector

3. The CAT5 twisted-pair cable consist of four twisted wires, each color coded; 8 wires must be correctly lined as the standards of EIA/TIA 568A or EIA/TIA568B

4. Cut thread residue and leave 1.5cm wire exposed outside the insulating layer and ensure 8 wire are straighten and neat.

5. Place the cable into the RJ-45 connector and use the crimping tool to attach the connector.

6. Repeat above steps for the other end of the cable; the wire sequence of both ends of the cable is suggested to be identical.

7. Make sure to test the cables before installing them once both ends of the cable have been completed.

Note:

1. All RJ-45 Ports of this device support Auto MDI/MDIX, so the different wire sequence of both enads of the cable is allowed.

Technical Specification

MODEL	SW-UF24P2G2SV-063	
Product name	24 ports 10/100Mbps IEEE 802.3af/at PoE switch	
Power Supply	Power Supply mode	Built-in power supply
	Voltage range	AC 96~264V
	Power consumption	The device <10W
		PoE power supply ≤420W
Network port parameter	Network Port	Ethernet downlink port : 10/100Mbps
		2 combo uplink port: 10/100/1000Mbps RJ45 or
		1000Base-X optical fiber port SFP
	Transmission distance	Downlink & Uplink port: 100m
		The trasmission distance of optical fiber port
		depends on the different SFP modules
	Transmission medium	Downlink port: Cat5e/6 standard cable
		Uplink port: Cat5e/6 standard cable
	PoE standard	IEEE802.3 af/at standard
	PoE power supply mode	End-span method
	PoE power supply wattage	Each port ≤30W
		Whole device ≤420W
Network switch specification	Network standards	IEEE802.3, IEEE802.3ab, IEEE802.3ad
		IEEE802.3u, IEEE802.3az
		IEEE802.3z
	Swap mode	Store and forward
	Data-caching mechanism	4.1M
	MAC address list	8K
	Throughput	6.5472Mbps
Indicator	Power indicator	Red led on: power on
	Uplink Combo port	Green led on: link up
		Green led off: link down
		Green led blinks: data transfer
	PoE indicator	24 PoE indicator (yellow)
	PoE network port indicator	24 port indicators blink white data transfer

Button	Reset button	Press the reset button and the device restarts
Protection level	Surge protection	6KV (common mode), 10/700us IEC61000-4-5
		2KV (differential mode), 10/700us IEC61000-4-5
	Electrostatic protection	Contact Discharge: ±6KV
		Air Discharge: ±8KV
		Standard:IEC61000-4-2
Reliability	Mean time btw failures	>50.000h
Mechanical	Dimension (mm)	440L x 297W x 44H
	Housing	Galvanized
	Body color	Black
	Net weight	4.25kg
Environmental	Operating temperature	0°C~ 55°C
	Storage temperature	-40°C~ 85°C
	Relative Humidity	0~ 95% (non-condensing)