DATASHETT

SWITCH 24 POE 10/100M + 2 UPLINK GIGABIT 250W VLAN 250m

MODELLO: SW-UF24P2GV-062

DATASHEET

Overview

The SW-UF24P2GV-062 provides 24 ports 10/100Mbps IEEE802.3af/at Power over Ethernet with a total of 250 watts of PoE budget, which is an ideal solution to fulfill the demand of sufficient PoE power for network applications.

The SW-UF24P2GV-062 is an ideal solution for securing IP surveillance infrastructure. It provides both 802.3af/at PoE functions along with 24 x 10/100Mbps ports featuring 15.4 watts 802.3af/30 watts 802.3at PoE in RJ-45 interfaces and extra 2-Gigabit uplink port: 10/100/1000Mbps RJ-45 to keep a cascade connection with another switch or NVR. For instance, one 24 Channels NVR and 24 PoE IP cameras as a kit for the administrators to centrally 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-UF24P2GV-062 reduces 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 powe can lower the installation costs, simplify the installation effort and eliminate the need for electricians or extension cords. Providing 24 PoE interfaces, the SW-UF24P2GV-062 is ideal for small businesses and workgroups requiring deploying the PoE for the wireless access points, IP-based surveillance IP phones in any places easily, efficiently and cost-effecvely.

Features

Comply with IEEE802.3, IEEE802.3u, 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
Gigabit uplink RJ-45 port: 2 x 10/100/1000Mbps
250 watts PoE budget
PoE data & power transmission distance up to 100 meters
Port based VLAN for Enhanced Security
Transmission distance max up to 250 meters when VLAN is enabled
Excellent anti-thunder,anti-static and anti-interference ability
Surge protection: 2KV
Restart function helps master IC reset wholly
Built-in 250W power supply
Easy and convenient to use, plug & play, no need to configure
Galvanized housing for stable and durable working life

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

VLAN Introduction

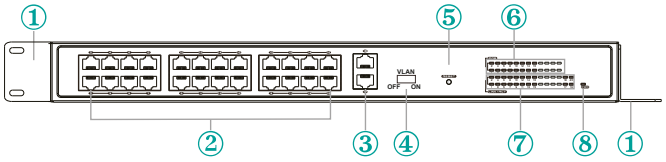
At present, applications of Ethernet switch is very wide. To satisfy the needs of various customers, it is urgent for network services to solve the problems of broadcast domains, bandwidth and security, so a new kind of technology of VLAN emerged.

Each DOWNLINK RJ-45 port and UPLINK RJ-45 ports form a separate workstation respectively. In the same VLAN workstation, regardless of which switch they are actually connected to, the communication between them is as if they were on a separate switch. Broadcasts in the same VLAN can only be heard by members of the VLAN, but not in other VLANs, which can control the generation of unwanted broadcast storms. At the same me, if there is no routing, different VLANs cannot communicate with each other, which increases the security of different departments in the enterprise network.

When the VLAN mode is enabled, the data cannot be forwarded among DOWNLINK RJ-45 ports, but DOWNLINK RJ-45 ports and UPLINK RJ-45 ports can communicate with each other. The bandwidth of DOWNLINK RJ-45 ports is forced to 10Mbps mode to adapt to the long distance transmission of max 250meters. The bandwidth of UPLINK RJ-45 port is 1000Mbps, which keeps a cascade connecon with another switch or NVR.

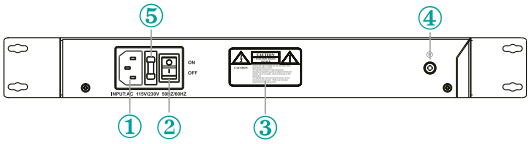
Note:
When you turn on VLAN button, please press reset button or reboot the power of the device, than VLAN mode is enabled.

Front panel



1. Rack-mounting ears: Cabinets for product installation or Wall installation
2. Downlink RJ45 port: Transfer data from other IP devices to the switch
3. Gigabit Uplink RJ45 Port: Transfer data from PoE ports to other devices (NVR/Switch/ADSL)
4. VLAN Button: Turn on VLAN button: indicator on and VLAN function starts
Turn off VLAN button: indicator off and VLAN function stops
5. Reset Button: Whole machine will restart while press button
6. PoE Indicator: Yellow Light on: when device is powered
Light off: when device is not detected or not powered
7. Link/ Act Indicator: Green LED on: link up
Green LED off: link down
Green LED blinks: data transfer
8. Power indicator: Red Light on: with power; Light off: no power

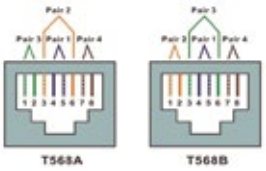
Rear panel



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

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

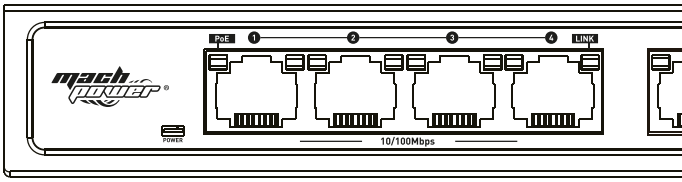
1. We recommend stripping at least a half of an inch offf the cable to expose the inner wires.
2. Separate the wires within the cable after the network cable jacket has been removed so that they can be put into the RJ-45 connector
3. The CAT5 twisted-pair cable consist of four twisted wires, each color 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-UF24P2GV-062	
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 ≤250W
Network port parameter	Network Port	Ethernet downlink RJ45 port : 24 x 10/100Mbps
		Gigabit uplink RJ45 port: 2 x 10/100/1000Mbps
	Transmission distance	Downlink port: 100m
		Uplink port: 100m
	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 ≤250W
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	4M
	MAC address list	16K
	Throughput	6.5472Mbps
Indicator	Power indicator	Red led on: power on
	Uplink gigabit 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	2KV (common mode), 10/700us IEC61000-4-5
		0.5KV (differential mode), 10/700us IEC61000-4-5
	Electrostatic protection	Contact Discharge: ±4KV
		Air Discharge: ±4KV
		Standard:IEC61000-4-2
Reliability	Mean time btw failures	>50.000h
Mechanical	Dimension (mm)	440L x 292W x 43.6H
	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)



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