



DATASHEET

SWITCH 16 POE 10/100M + 2 UPLINK

GIGABIT 200W VLAN 250m

MODELLO: SW-UF16P2GV-060

Overview

The SW-UF16P2GV-060 provides 16 ports 10/100Mbps IEEE802.3af/at Power over Ethernet with a total of 200 watts of PoE budget, which is an ideal solution to fulfill the demand of sufficient PoE power for network applications.

The SW-UF16P2GV-060 is an ideal solution for securing IP surveillance infrastructure. It provides both 802.3af/at PoE functions along with 16 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 16 Channels NVR and 16 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-UF16P2GV-060 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 power can lower the installation costs, simplify the installation effort and eliminate the need for electricians or extension cords. Providing 16 PoE interfaces, the SW-UF16P2GV-060 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-effectively.

Features

- Comply with IEEE802.3, IEEE802.3u, IEEE802.3af/at standards
- Support IEEE802.3x full-duplex flow control; support Auto MDI/MDIX
- 16 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
- 200 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 200W 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.

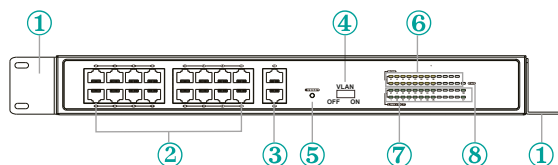
Each DOWNLINK RJ-45 port and UPLINK RJ-45 ports form a separate workstation respectively. In the same VLAN workstation, regardless of which switch they are actually connected to, the communication between them is as if they were on a separate switch. Broadcasts in the same VLAN can only be heard by members of the VLAN, but not in other VLANs, which can control the generation of unwanted broadcast storms. At the same time, 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 connection with another switch or NVR.

Note:

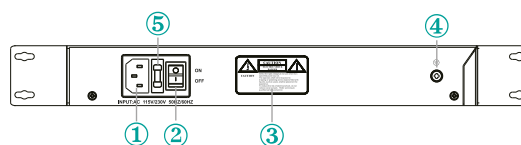
When you turn on VLAN button, please press reset button or reboot the power of the device, than VLAN mode is enabled.

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

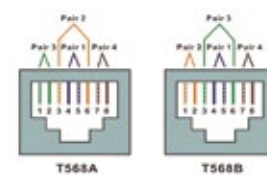


- 1. Input:** AC 96~264V
- 2. Power Switch:** Turn on with power, Turn off no power
- 3. Waiting Content**
- 5. Ground Connection**
- 6. Fuse:** Max 10A

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 international standard of EIA/TIA 568A or EIA/TIA 568B.

	1	2	3	4	5	6	7	8
T568A	white green	green	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 off 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 ends of the cable is allowed.

Technical Specification

MODEL	SW-UF16P2GV-060		
Product name	16 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 ≤200W	
Network port parameter	Network Port	Ethernet downlink RJ45 port : 16 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 ≤200W		
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	5.3568Mbps		
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	16 PoE indicator (yellow)	
PoE network port indicator	16 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)	300L x 221W x 43.6H
	Housing	Galvanized
	Body color	Black
	Net weight	2.5kg
Environmental	Operating temperature	0°C~ 55°C
	Storage temperature	-40°C~ 85°C
	Relative Humidity	0~ 95% (non-condensing)

