

DATASHEET

ON-S1008GP-G-F 8 Port Giga PoE Switch



ON-S1008GP-G-F

■ Features

8-Port 10/100/1000Mbps IEEE 802.3af/at PoE Switch (End-Span PSE)

- ▶ Comply with IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3af/at standards
- ▶ Support IEEE802.3x full-duplex flow control; support Auto MDI/MDIX
- ▶ 8-Port support 48V-56VDC power to PoE- powered devices
- ▶ PSE devices provide 15.4W or 30W power to powered devices
- ▶ 120-watt PoE budget
- ▶ Built-in 53V/2.1A switching power supply
- ▶ Extra 1-Port 10/100/1000Mbps UPLINK RJ-45 and 1-port 1000Base-X SFP
- ▶ 121-PoE data & power transmission distance up to 100m
- ▶ Port based VLAN for Enhancing Security
- ▶ Backplane Bandwidth: 20Gbps
- ▶ Excellent anti-thunder, anti-static and anti-interference ability
- ▶ Surge Protection: 4KV
- ▶ Easy and convenient to use, plug & play, no need to configure
- ▶ Galvanized housing for stable and durable working life

■ Overview

The ON-S1008GP-G-F provides 8-Port 10/100/1000Mbps IEEE 802.3af/at Power over Ethernet with a total of 120 watts of PoE budget, which is an ideal solution to fulfill the demand of sufficient PoE power for network applications. It is able to drive 8 IEEE 802.3af/at compliant powered devices.

The ON-S1008GP-G-F is an ideal solution for securing IP surveillance infrastructure. It provides both 802.3af/at PoE functions along with 8 x 10/100/1000Base-TX ports featuring 15.4-watt 802.3af/30-watt 802.3at PoE in RJ-45 interfaces and extra 1 x 10/100/1000Mbps UPLINK RJ-45 port and 1 x 1000Base-X SFP port to keep a cascade connection with another switch or NVR. For instance, one ON-S1008GP-G-F can be combined with one 8-Channel NVR and eight 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.

The ON-S1008GP-G-F RJ-45 interfaces support 10/100/1000Mbps Auto-Negotiation at downlink port from 1 to 8 and uplink port from 1 to 2 for optimal speed detection through RJ-45 Category 6, 5e or 5 cables and fiber cable. It also supports standard Auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight or crossover cables.

The ON-S1008GP-G-F supports port-based VLAN function, which effectively prevent the whole system from internet broadcast storms to make the data transfer much safer. When the VLAN mode is enabled, the data cannot be forwarded among DOWNLINK RJ-45 ports, but DOWNLINK ports and UPLINK ports can communicate with each other. The bandwidth of RJ-45 port remains at 100/1000Mbps.

With data and power over Ethernet formed one unit, the ON-S1008GP-G-F 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 efforts and eliminate the need for electricians or extension cords. Providing 8 PoE interfaces, the ON-S1008GP-G-F is ideal for small businesses and work-groups which requiring PoE deployment for the wireless access points and IP-based surveillance IP phones in any place easily, efficiently and cost-effectively.

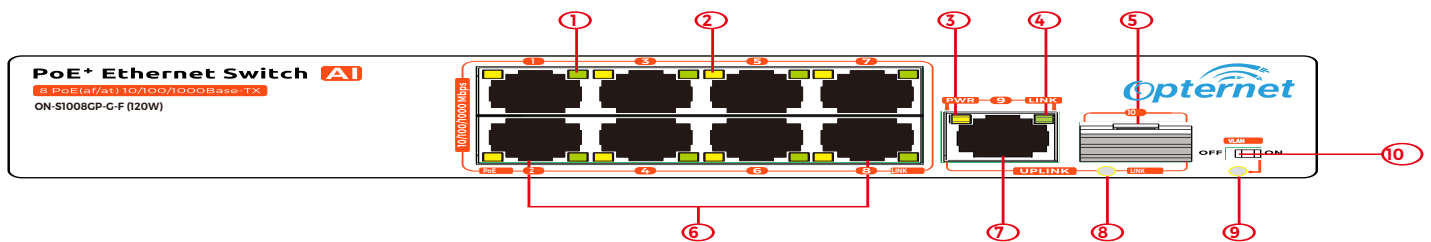
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Products Panel Figure

Front panel



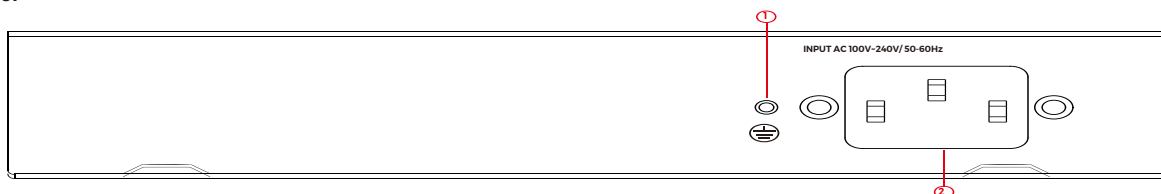
NO.	Type	Light color	State	Descriptions
①	Downlink Port Indicator	Green	Light on	Link up
			Blinks	Data transfer
			Light off	Link down
②	PoE Indicator	Yellow	Light on	power on
			Light off	power off
③	Power Indicator	Yellow	Light on	power on
			Light off	power off
④	Uplink RJ45 Port Indicator	Green	Light on	Link up
			Blinks	Data transfer
			Light off	Link down
⑧	Uplink SFP port Indicator	Green	Light on	Link up
			Blinks	Data transfer
			Light off	Link down
⑨	VLAN Indicator	Green	Light on	VLAN mode
			Light off	Normal model
⑩	VLAN Switch	/	On	VLAN function start
			Off	Normal mode

Uplink Port: Transfer data from other IP devices to the switch

Downlink RJ45 Port: Transfer data from PoE ports to other devices (NVR/Switch/ADSL)

Uplink SFP Port: Transfer data from PoE ports to other remote devices according to fiber (NVR/Switch/ADSL)

Rear panel



① Ground Connection

② Input: AC 100~240V

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■ Quick Setup Guide

Package Contents

- 1) ON-S1008GP-G-F: 1pc
- 2) Manual: 1pc
- 3) AC cable: 1pc

Step 1: Begin with all input/output devices turned off and power cables are removed.

Step 2: Connect RJ-45 port of PoE cameras with Downlink port of PoE switches over standard Cat 5e/6 cables.

Step 3: Connect Uplink port of PoE switches with RJ-45 port of NVR or computer or other devices over standard Cat 5e/6 cables.

Step 4: Connect AC power cable with PoE switches.

Step 5: Make sure above connections are properly finished, then turn on the power.

■ AI Watchdog Function Introduction

PoE webcam is 24 hours of continuous work, when the PoE camera crashes abnormally, or does not communicate, it needs to be manually checked on the spot and manually restarted.

But with our intelligent watchdog function, there is no need for personnel to go to the scene to view when the PoE switch can not receive the network data packets of the camera, it will start timing when the cumulative time exceeds three minutes, the camera will be automatically powered off and restarted, to achieve the purpose of remote intelligent monitoring.

■ VLAN Introduction

At present, applications of Ethernet switches are very wide. To satisfy the needs of various customers, it is urgent for network services to solve the problems such as broadcast domains, bandwidth and security, thus, a new technology called VLAN has emerged.

Each DOWNLINK RJ-45 port and UPLINK RJ-45 port 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, preventing unwanted broadcast. At the same time, if there is no routing, different VLANs cannot communicate with each other, enhancing 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 ports and UPLINK RJ-45 port and SFP port can communicate with each other.

Note:

After you turn on the VLAN button, please press the reset button or reboot the device, then VLAN mode is enabled.

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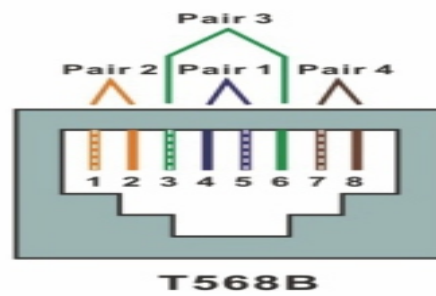
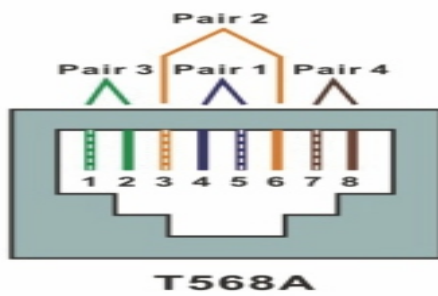
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How to make a network cable

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

1. Cat5e, Cat6, or Cat7 cable
2. RJ-45 connectors
3. Crimping tool
4. Wire stripper or knife

The wire sequence of RJ45 connector must comply with the interna onal standards 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 half of an inch off of 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 consists of four twisted wires, each color-coded; 8 wires must be correctly lined as the standards of EIA/TIA 568A or EIA/TIA 568B.
- 4) Cut thread residue and leave 1.5cm wire exposed outside the insulating layer and ensure 8 wires are straightened and neat.
- 5) Place the cable into the RJ-45 connector and then use the crimping tool to attach the connector.
- 6) Repeat the 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.
2. Up to two units can be cascaded.

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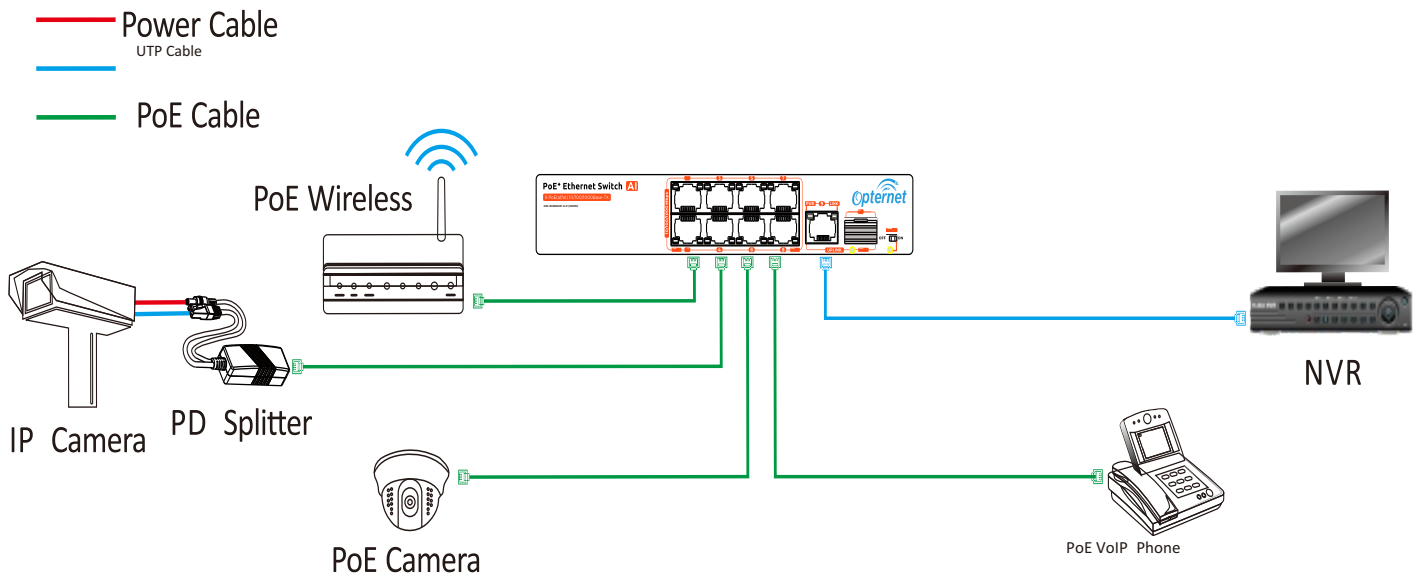
Technical Specifications

Model	ON-S1008GP-G-F
Product Name	8-Port 10/100/1000Mbps IEEE 802.3af/at PoE Switch (End-Span PSE)
Power Supply	
Power Supply Mode	AC Power Supply
Voltage Range	AC100~240V
Power Consumption	The device <5W PoE power supply ≤120W
Network Port Parameter	
Network Port	Ethernet Downlink RJ-45 Port: 8*10/100/1000Mbps Uplink Port: 1*RJ45 10/100/1000Mbps and 1*SFP 1000Base-X
Transmission Distance	1~8 Ethernet Downlink RJ-45 Port: 100m Uplink RJ-45 Port: 100m SFP Port: Maximum 120Km
Transmission Medium	1~8 Ethernet Downlink RJ-45 Port: Cat5e/6 standard cable Uplink Port: Cat5e/6 standard cable and Fiber
PoE Standards	IEEE802.3af/at
PoE Power Supply Mode	End-span
PoE Power Supply Wattage	Each port ≤30W Whole devices≤120W
Network Switch Specification	
Network Standards	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/FX, IEEE802.3az, IEEE802.3ab
Swap Mode	Store-and-forward
Data-Caching Mechanism	2Mb
MAC Address List	4K
Backplane Bandwidth	20Gbps
Jumbo Frame	9K
Forwarding Capacity	14.88Mpps
Protection Level	
Surge Protection	4KV (common mode), 10/700us IEC61000-4-5
Electrostatic Protection	Contact Discharge: ±4KV Air Discharge: ±6KV Standard: IEC61000-4-2
Reliability	
Mean time between failures	> 50000h
Mechanical	
Dimensions (L*W*H)	200mmx118mmx45mm
Housing	Galvanized
Body Color	Black
Net Weight	790g
Environmental	
Operating Temperature	0~55℃
Storage Temperature	-40~55℃
Relative Humidity	0~95% (non-condensing)

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■ Application Diagram



■ After-sales Service

For breakdown caused by product quality, we guarantee product return within 15 days, exchange within 30 days and free warranty within 1 year. The guarantee period counts from the date of purchase.