

ON-S1016GP-2G-2F 16 Port Giga PoE Switch



ON-S1016GP-2G-2F

Features

16-Port 10/100/1000Mbps, 2-port 10M/100M/1000M and 2-port 1000Base-X IEEE 802.3af/at/u/ab/az PoE Switch (End-Span PSE)

- Comply with IEEE802.3, IEEE802.3ab/u/az, IEEE802.3af/at standards
- Support IEEE802.3x full-duplex flow control; support Auto MDI/MDIX
- 16-Port support 48V-56V DC power to PoE powered devices
- PSE devices provide 15.4W or 30W power to powered devices
- **I**► 200/250-wa s PoE budget
- Built-in 53V/4.9A switching power supply
- Extra 2 x 10/100/1000Mbps Uplink RJ-45 ports & 2 x SFP 1000Base-X port
- PoE data & power transmission distance up to 100 meters
- Port based VLAN for Enhancing Security
- Backplane Bandwidth: 40 Gbps
- Excellent an -thunder, an -sta c and an -interference ability
- Surge Protec on: 4KV
- Easy and convenient to use, plug & play, no need to configure
- Galvanized housing for stable and durable working life

Overview

The ON-S1016GP-2G-2F provides 16-port 10/100/1000Mbps IEEE 802.3af/at Power over Ethernet with a total of 200/250 was of PoE budget, which is an ideal solu on to fulfill the demand of sufficient PoE power for network applica ons. It is able to drive 16 IEEE 802.3af/at compliant powered devices.

The ON-S1016GP-2G-2F is an ideal solu on for securing IP surveillance infrastructure. It provides both 802.3af/at PoE func ons along with 16 x 10/100/ 1000 Base-TX ports featuring 15.4-wa 802.3af/30-wa 802.3at PoE in RJ-45 interfaces and extra 2 x 10/100/1000Mbps Uplink RJ-45 ports & 2 x SFP 1000Base-X port to keep a cascade connec on with another switch or NVR. For instance, one ON-S1016GP-2G-2F can be combined with one 16-Channel NVR and sixteen 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-S1016GP-2G-2F RJ-45 interfaces support 10/100/1000Mbps Auto-

Nego a on at downlink port from 1 to 16 and uplink port from 1 to 2 for op mal speed detec on through RJ-45 Category 6, 5e or 5 cables. It also supports standard Auto-MDI/MDI-X that can detect the type of connec on to any Ethernet device without requiring special straight or crossover cables.

The ON-S1016GP-2G-2F supports port-based VLAN func on, which effec vely 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 RJ-45 & SFP ports can communicate with each other. The bandwidth of each ports keeps no changing.

With data and power over Ethernet formed one unit, the ON-S1016GP-2G-2F 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 installa on costs, simplify the installa on effort and eliminate the need for electricians or extension cords. Providing 16 PoE interfaces, the ON-S1016GP-2G-2F is ideal for small businesses and work-groups which requiring PoE deployment for the wireless access points, IP-based surveillance and IP phones in any place easily, efficiently and cost-effec vely.





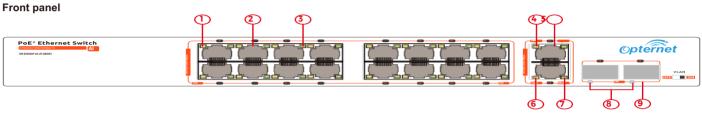






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Products Panel Figure



- ② Downlink Port: Transfer data from other IP devices to the switch
- ⑤ Uplink RJ45 Port: Transfer data from PoE ports to other devices (NVR/Switch/ADSL) ⑨ Uplink SFP Port: Transfer data from PoE ports to other devices (NVR/Switch/ADSL)

NO.	LED Type	Light Color	State	Descrip ons	
1)	PoE Indicator	Yellow	Light on	Powered to PD device	
	POE Indicator	Yellow	Light off	No power	
3	PoE ports Link/ac ve indicator		Light on	Indicates that this port is connected	
		Green	Blink	Indicates that this port is transceiving ethernet frames	
			Light off	Indicates that this port is disconnected	
4	5 1 11 .	V. II	Light on	Power on	
	Power Indicator	Yellow	Light off	Power off	
6	VLAN Indicator	Yellow	Light on	VLAN mode is on	
			Light off	Normal mode	
7		Green	Light on	Indicates that this port is connected	
	Uplink RJ45 Port Indicator		Blink	Indicates that this port is transceiving ethernet frames	
			Light off	Indicates that this port is disconnected	
8	Uplink SFP Port Indicator		Light on	Indicates that this port is connected and data is transceiving	
		Green	Blink	Indicates that this port is transceiving ethernet frames	
			Light off	Indicates that this port is disconnected	

Rear panel



- (1) Ground Connection
- ② Input: AC 100~240V











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Quick Setup Guide

Package Contents

1) ON-S1016GP-2G-2F: 1pc 3) Manual: 1pc

) AC power cord: 1pc) Mounting ears: 1set

- 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.

Al 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

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 can communicate with each other.

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











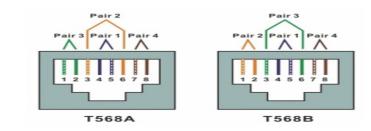
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How to make a network cable

To create a network cable, you will sit need the equipment 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 interna onal 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 half an inch 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/
- Cut thread residue and leave 1.5cm wire exposed outside the insula ng layer and ensure 8 wires are straighten and neat.
- Place the cable into the RJ-45 connector and then use the crimping tool to a ach the connector. 5)
- 6) Repeat above steps for the other end of the cable; the wire sequence of both ends of the cable is suggested to be iden cal.
- 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-S1016GP-2G-2F							
Product Name	16-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 <10W PoE power supply ≤200/250W							
Network Port Parameter								
Network Port	Ethernet Downlink RJ-45 Port: 16*10/100/1000Mbps Uplink RJ-45 Port: 2*10/100/1000Mbps & SFP Port: 2x1000Based-X							
Transmission Distance	1~16 Ethernet Downlink RJ-45 Port: 100m Uplink RJ-45 Port: 100m, Fiber port: maximum 120km (Depends on Fiber module)							
Transmission Medium	1~16 Ethernet Downlink RJ-45 Port: Cat5e/6 standard cable Uplink Port: Cat5e/6 standard cable							
PoE Standards	IEEE802.3af/at							
PoE Power Supply Mode	End-span method							
PoE Power Supply Wattage	Each port ≤30W Whole device≤200/250W							
Network Switch Specification								
Network Standards	IEEE802.3 10BASE-T,EEE802.3u 100BASE-TX/FX, IEEE802.3ab,1000BASE-T IEEE802.3z,1000BASE-X							
Swap Mode	Store-and-forward							
Data-Caching Mechanism	4Mb							
MAC Address List	8K							
Backplane Bandwidth	20Gbps							
Forwarding Capacity	29.76Mpps							
Gigbit Ethernet Uplink Port	LED on: link up, off: link down, blinks: data transferring							
PoE Network Port Indicator	1~16 port indicators blink while data transferring							
VLAN Button	Turn on VLAN button: VLAN function starts Turn off VLAN button: VLAN function stops							
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)	320mmx208mmx45mm							
Housing	Galvanized							
Body Color	Black							
Net Weight	1925g							
Environmental								
Operating Temperature	0 5 €°C							
Storage Temperature	-40 % 5°C							
Relative Humidity	0~95% (non-condensing)							





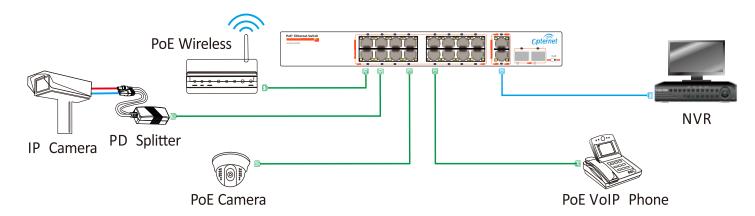




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■ Application Diagram

Power CableUTP CablePoE Cable



■ 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.

