Product Datasheet

27-port Gigabit PoE Switch

(ONV-H3024PFD)

OVERVIEW

The ONV-H3024PFD is a Gigabit PoE fiber switch independently developed by ONV. It has 26*10/100/1000Base-T adaptive RJ45 ports and 1*1000Base-X uplink SFP fiber port. Ports 1-24 can support PoE+ standard and single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and recognize the power-receiving equipment that meets the standard and supply power through the network cable. It can supply power to PoE terminal equipment such as wireless AP, IP camera, VoIP phone, and building visual access control, intercom through a network cable, to meet the network environment that needs high-density PoE power supply, suitable for hotels, campuses, parks, supermarkets, scenic spots, factory quarters and SMB small and medium-sized enterprises form a cost-effective network. Unmanaged mode, plug, and play, no configuration, easy to use.

FEATURE

■ **Gigabit access, uplink SFP fiber port**

◇ Support non-blocking wire-speed forwarding for smoother transmission.

◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.

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◇ Provide Gigabit RJ45 ports and uplink SFP port for flexible networking and meets the networking requirements of various scenarios.

■ **Smart PoE power supply**

◇ 24*10/100/1000Base-T RJ45 ports support PoE power to meet the needs of PoE power in various scenarios in the security field.

◇ Comply with PoE+ power supply standard, automatically identify PoE devices for power supply without damaging non-PoE devices.

◇ Port 17-24 can support the watchdog function, which automatically detects the data communication status in real time. When the port communication fails, the corresponding port PoE will automatically restart and repair the network communication.

■ **Stable and reliable**

◇ CCC, CE, FCC, RoHS.

◇ Plug and play, no configuration, simple and convenient.

◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, and PoE.

◇ Low power consumption, with fan, galvanized steel housing, and excellent heat dissipation to ensure the stable operation of the switch.

◇ **Long distance + VLAN mode (E)**: Turn the switch to ON (default OFF), the rate of ports 17-24 is reduced to 10M, and the port VLAN isolation function is enabled to suppress broadcast storms. The transmission distance using the existing twisted pair cable is up to 250 meters.

TECHNICAL SPECIFICATION

Model	ONV-H3024PFD
Interface Characteristics	
Fixed Port	1*1000Base-X uplink SFP fiber port (Data) 2*10/100/1000Base-T uplink RJ45 ports (Data)

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	24*10/100/1000Base-T PoE ports (Data/ Power)
Ethernet Port	Port 1-26 can support 10/100/1000Base-T(X) auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤250 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters)
Function switch	E: Long distance transmission and VLAN isolation function, default: OFF, enable: ON. After turning on, ports 17-24 can support 10M/250 meters, and the VLAN function.
Optical Fiber Port	Default no include optical module (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km
Chip Parameter	
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x
Forwarding Mode	Store and forward (Full wire speed)
Switching Capacity	54Gbps (non-blocking)
Forwarding Rate@64byte	40.18Mpps
MAC	8K
Buffer Memory	4M
Jumbo Frame	10K
LED Indicator	Power: PWR (Green), Function switch: ON/OFF (Green), Network: Link (Green), PoE: PoE (Red)
PoE& Power Supply	
PoE Port	Port 1-24
Power Supply Pin	1/2(+) 3/6(-)
Max Power Per Port	30W, PoE+

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Total PWR/ Input Voltage	250W/ (AC100-240V)
Power Consumption	Standby <15W, full load<250W
Power Supply	Built-in power supply, AC100~240V 50-60Hz, 4.1A
Physical Parameter	
Operation Temp/ Humidity	-20~55°C, 5%~90% RH non condensing
Storage Temp/ Humidity	-40~80°C, 5%~95% RH non condensing
Dimension (L*W*H)	350*215*44mm
Net /Gross Weight	2.0kg/ 2.5kg
Installation	Desktop, Rack mounted
Certification& Warranty	
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15, RoHS
Warranty	1 year, lifelong maintenance.

DIMENSION

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APPLICATION

ORDERING INFORMATION

Model	Description	Built-in Power Supply
ONV-H3024PFD	PoE switch with 26*10/100/1000M RJ45 ports and 1*1000M uplink SFP fiber port. Ports 1-24 can support the PoE+ standard. Adjust the function switch port 17-24 can support 10M/250 meters transmission and VLAN function. Built-in power supply.	52V/250W
Note: The optical module is not included and needs to be purchased.		

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PACKING LIST

	Content	Qty	Unit
Packing List	27-port Gigabit PoE switch	1	Set
	AC Power Line	1	PC
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

OPTICAL MODULE

Product	Model	Description	Unit
1.25G Optical Module	2630	SFP optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface. support DDM function and hot plugging.	PC
	2632	SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. support DDM function and hot plugging.	PC
	2612-T	SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface. support DDM function and hot plugging.	PC
	2613-R	SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface. support DDM function and hot plugging.	PC
	2612-T-SC	SFP optical module, 1.25G single-mode single fiber TX1310nm/ RX1550nm, transmission distance: 20km, SC interface. support DDM function and hot plugging.	PC
	2613-R-SC	SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, SC interface. support DDM function and hot plugging.	PC

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Power Module	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

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