Product Datasheet

27-port Gigabit Uplink PoE Switch
(ONV-H1024PFD)

OVERVIEW

The ONV-H1024PFD is a smart PoE fiber switch independently developed by ONV. It has 24*10/100Base-TX RJ45 ports and 2*10/100/1000Base-T RJ45 ports and 1*1000Base-X uplink SFP fiber port. Port 1-24 can support the IEEE802.3af/at 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, video access control intercom, etc., through a network cable to meet the network environment that needs a high-density PoE power supply. It is suitable for hotels, campuses, factory quarters, and small and medium-sized enterprises to form an economically efficient network. Unmanaged mode, plug and play, no configuration, easy to use.

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FEATURE

■ 10/100M access, uplink Gigabit RJ45/SFP port

◇ Support non-blocking wire-speed forwarding.

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

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

■ Smart PoE power supply

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

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

■ Stable and reliable

◇ CCC, CE, FCC, RoHS.

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

◇ Self-developed power supply, high redundancy, providing a long-term and stable PoE power output.

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

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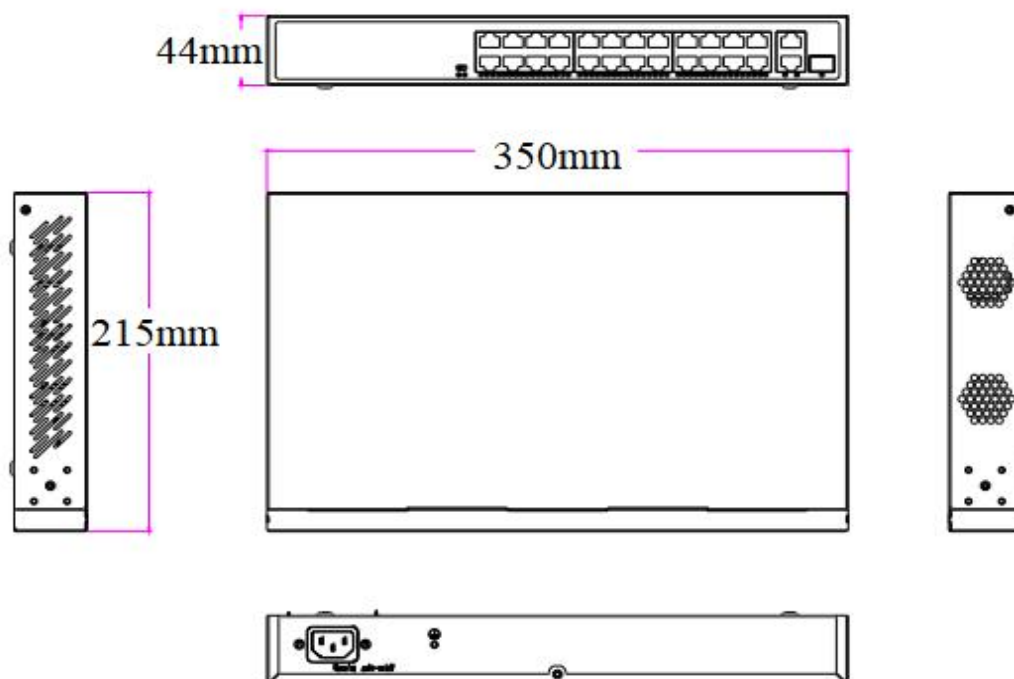
■ Innovative function

◇ **Long distance mode (E):** When the switch is turned to ON (default OFF), the rate of ports 17-24 is reduced to 10M, and the transmission distance is up to 250 meters.

◇ **PoE Watchdog:** The watchdog function is enabled by default for ports 17-24, 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.

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TECHNICAL SPECIFICATION

Model	ONV-H1024PFD
Interface Characteristics	
Fixed Port	2*10/100/1000Base-T RJ45 ports (Data) 24*10/100Base-TX PoE ports (Data /Power) 1*1000Base-X uplink SFP fiber port (Data)
Ethernet Port	Port 1-24 can support 10/100Base-T(X) and port 25-26 can support 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)
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.
Functional Switch	**E file:** long distance transmission function: default-OFF, enable-ON. When turned on, the rate of ports 17-24 support 10M/250 meters transmission and PoE watchdog
Chip Parameter	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and forward (Full wire speed)
Switching Capacity	12Gbps (non-blocking)
Forwarding Rate@64byte	8.04Mpps
MAC	2K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (Green), Network: Link (Green), PoE: PoE (Red), Function

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	switch: Extend (Green)
PoE& Power Supply	
PoE Port	Port 1-24
Power Supply Pin	1/2(+) 3/6(-)
Max Power Per Port	30W, PoE+
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	1.9kg/ 2.4kg
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.

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DIMENSION

APPLICATION

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ORDERING INFORMATION

Model	Description	Built-in Power Supply
ONV-H1024PFD	PoE switch with 24*10/100M RJ45 ports and 2*10/100/1000M RJ45 ports and 1*1000M uplink SFP fiber port. 1-24 ports support the PoE+ standard. Adjustment function switch, 17-24 ports support PoE watchdog (auto-restart PoE) and support 10M/250 meters transmission. Built-in power supply.	52V/250W

Note: The optical module is not included and needs to be purchased.

PACKING LIST

	Content	Qty	Unit
Packing List	27-port Gigabit uplink 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. supports DDM function and hot plugging.	PC
	2632	SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	PC
	2612-T	SFP optical module, 1.25G single-mode single fiber TX1310nm/	PC

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7		RX1550nm, transmission distance: 20km, LC interface. supports DDM function and hot plugging.	
	2613-R	SFP optical module, 1.25G single-mode single fiber TX1550nm/ RX1310nm, transmission distance: 20km, LC interface. supports 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. supports 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. supports DDM function and hot plugging.	PC

CONTACT US

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