JHA-P312016CBMHGW Series

18-Port Gigabit Uplink AI PoE Switch , 16*10/100M PoE ports and 2*10/100/1000M uplink RJ45 ports and 1*1000Base-X SFP fiber port (combo port)

Features

■ **10/100Mbps access, gigabit TP/SFP uplink**

◇ 16*10/100M PoE ports and 2*10/100/1000M RJ45 ports and 1*1000M combo port, which is convenient for users to flexibly network to meet various networking needs.

◇ Support non-blocking wire-speed forwarding.

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

■ **Smart PoE power supply function**

◇ 16*10/100Base-TX RJ45 ports support POE, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.

◇ IEEE 802.3af/at PoE standard, without damaging non-PoE devices.

◇ Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.

◇ 16*10/100Base-TX PoE ports can support the watchdog function to automatically detect the data communication status in real-time. When the port communication fails, the corresponding port POE will automatically restart to repair the network communication, eliminating the need for manual maintenance.

■   **Innovative function**

◇ **long-distance transmission and VLAN mode (E):** When the switch status is "ON" (default OFF), Port 1-16 physical VLAN isolation is enabled, suppressing broadcast storms and improving network performance, and port 9-16 rate is reduced to 10M. The use of the existing twisted pair can break through the transmission limit of 100m of twisted pairs, and the transmission distance can reach 250m. On the other hand, it can solve the problem of poor transmission caused by line aging.

◇ **AI self-healing mode (D):** When the switch status is "ON" (default OFF), port 1-16 can support the watchdog function and automatically detects the data communication status in real-time.

◇ **Real-time power and power priority mode (P):** When the switch status is "ON" (default OFF), the POE real-time power grading indicator lights up, quickly understanding the power consumption of the host, and enabling the port priority function to ensure the port 1 power output.

■   **Stable and reliable**

◇ CCC,CE, FCC, RoHS.

◇ Support desktop and 1U/19 inch cabinet installation.

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

◇ Low power consumption, galvanized steel casing, The fan active cooling.

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

◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, link, L/A, and PoE.

Introduction

JHA-P312016CBMHGW is an unmanaged AI PoE switch. It has 16*10/100M PoE ports and

2*10/100/1000M uplink RJ45 ports and 1*1000Base-X SFP fiber port (combo port). Port 1-16 can support IEEE802.3af/at standard PoE power supply, and single port PoE power reaches 30W. The maximum PoE output power is 250W. Port 1-16 can support the PoE watchdog function. When the port communication failure corresponds to the port POE will automatically restart, self-recover network communication, reducing manual intervention and maintenance. 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, webcam, VoIP, video access control, etc. through the network cable, to meet the network environment that needs high-density PoE power supply. It is suitable for hotels, campuses, parks, banks, hospitals, factories, small and medium-sized enterprises form a cost-effective network. Unmanaged model, plug and play, no configuration, easy to use.
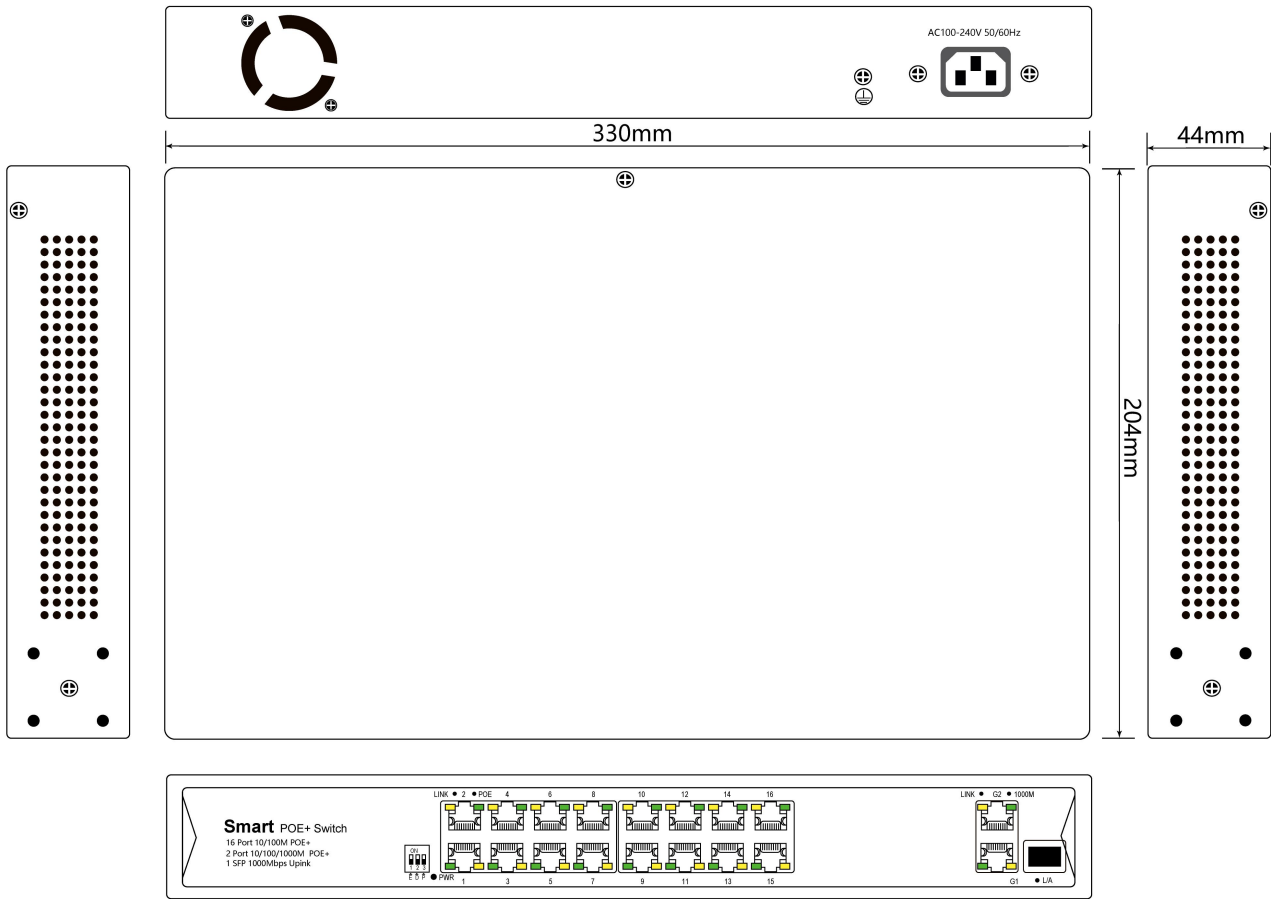
Specification

Model	JHA-P312016CBMHGW
Interface Characteristics	
Fixed Port	16*10/100Base-TX PoE ports (Data/Power) 2*10/100/1000Base-T uplink RJ45 ports (Data) 1*1000Base-X SFP fiber port (Data) (combo port)
Ethernet Port	Port 1-16 support 10/100Base-TX, port 17-18 support 10/100/1000Base-T(X) automatic detection, full/half Duplex MDI/MDI-X adaptive
Twisted Pair Transmission	10BASE-T:Cat5 UTP(≤250 meter) 100BASE-TX:Cat5 or later UTP(≤100 meter) 100BASE-T:Cat5e or later UTP(≤100 meter)
SFP Slot Port	Gigabit SFP optical fiber interface, default not matching optical modules

	(optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Optical Cable/ Distance	Multi mode: 850nm /0 ~ 500M, single mode: 1310nm /0 ~ 40KM, 1550nm /0 ~ 120KM.
Functional Switch	(E, D, P) Three levels, the default state is "OFF", the function description is as follows after "ON" is turned on
	E is the "ON" state, port 9-16/17-24 can support long-distance transmission 10M/250m and VLAN transmission mode; when "OFF", 100 meters transmission.
	D is the "ON" state, port 1-16/1-24 can support AI self-healing mode; when "OFF", no communication self-healing function.
	P is the "ON" state, POE outputs total power and priority indication mode; when "OFF", no power indication function.
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	14.8Gbps(non-blocking)
Forwarding Rate@64byte	5.36Mpps
MAC	16K
Buffer Memory	4M
Jumbo Frame	10K
LED Indicator	Power: PWR (green), Network : link (yellow), PoE :PoE (green) .rate:1000M (green)
PoE & Power	
PoE Port	Port 1 to 16 IEEE802.3af/at @ POE

Power Supply Pin	Defaul 1/2 (+), 3/6 (-), Optional 4/5(+), 7/8(-)
Max Power Per Port	30W, IEEE802.3af/at
Total PWR / Input Voltage	250W (100-240V)
Power Consumption	Standby<15W,Full load<250W
Power Supply	Built-in switching power supply, AC 100 ~ 240V 50-60Hz 4.1A
Physical Parameter	
Operation TEMP / Humidity	-20~+55°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+75°C, 5%~95% RH Non condensing
Dimension (L*W*H)	330*204*44mm
Net /Gross Weight	<1.7kg / <2.2kg
Installation	Desktop, wall mounted,19 inch 1U cabinet
Certification & Warranty	
Lightning protection / protection level	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC,CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B, RoHS
Warranty	1 year, lifelong maintenance.

Dimension

AC100-240V 50/60Hz

330mm

44mm

204mm

Smart POE+ Switch
16 Port 10/100M POE+
2 Port 10/100/1000M POE+
1 SFP 1000Mbps Uplink

LINK ● 2 ● POE 4   6   8   10   12   14   16

LINK ● G2 ● 1000M

G1   ● L/A

PWR

Ordering Information

Model	Description
JHA-P312016CBM HGW	Unmanaged AI PoE switch with 16*10/100M PoE ports and 2*10/100/1000M uplink RJ45 ports and 1*1000M SFP combo port, Port 1-16 can support IEEE802.3af/at PoE standard. Adjust function switch, Port 9-16 can support 10M/250 meters transmission. VLAN isolation, AI self-healing, power indication, and power supply priority. Support 1U/19 inch cabinet installation.

Packing List

	CONTENT	QTY	UNIT
PACKING LIST	18-port Gigabit uplink AI PoE switch	1	SET
	AC Power Cable	1	PC
	Mounting Kits(Hanging Ear)	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

E-mail: info@jha-tech.com   http://www.jha-tech.com