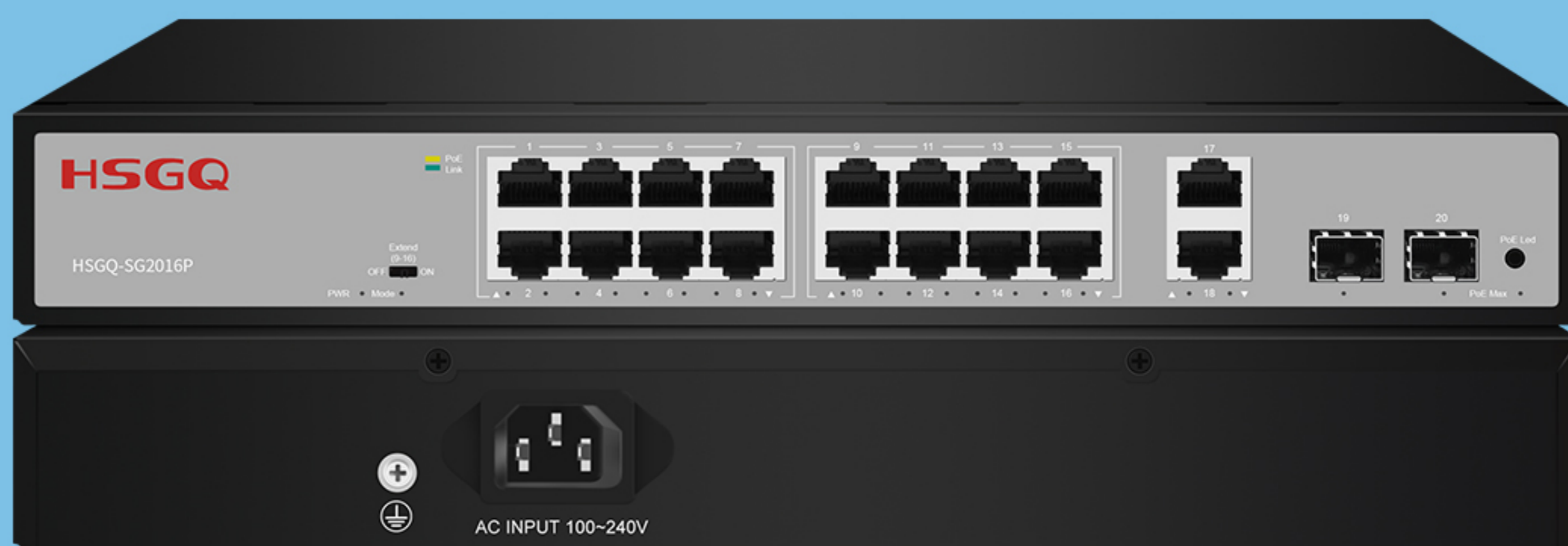# HSGQ-SG2016P

Product Description

20 Port gigabit Intelligent standard PoE switch, using high-quality high-speed network IC and the most stable PoE chip, PoE port meets 802.3af / 802.3at standard, this series of PoE switch can be 10/100/1000M Ethernet. The network provides a seamless connection, and the PoE power port can automatically detect and power the powered devices that comply with the IEEE802.3af / IEEE802.3at standards. The non-PoE device intelligently detects no power and only transmits data.

PoE is power over ethernet, which refers to the transmission of data signals to some IP-based terminals (such as IP phones, wireless access AP, network cameras, etc.), but also provides DC power for the device. Technically, these devices that receive DC power are called powered devices.

With simple and convenient installation and maintenance methods and rich business features, it helps users to build a safe and reliable high-performance network. It is mainly located in the core or convergence layer of user networks such as industrial parks, buildings, factories and mines, government agencies, and residential broadband; it can be widely used in ethernet access scenarios such as small and medium-sized enterprises, Internet cafes, hotels, and schools.

Product Features

I/O Interface	Power	AC100-240V50/60Hz
	Ethernet	16×Gigabit PoE Ports
		2×Uplink ports
		2×Gigabit SFP Ports
Performance	Bandwidth	40Gbps
	Pack Forward Rate	29.76Mpps
	Package Cache	3Mbit
	MAC Address	8K
	Forwarding Mode	Store and forward
Standard	Network Protocol	IEEE802.3 (Ethernet)
		IEEE802.3u (Fast Ethernet)
		IEEE802.3ab (Gigabit Ethernet)
		IEEE802.3x (Flow Control)
		IEEE 802.3z (Gigabit Ethernet Fiber Standard)
	PoE Protocol	IEEE802.3af(15.4W)
		IEEE802.3at(30W)
		PoE port output voltage: DC 44-57V
		PoE power supply core: 1/2+; 3/6-
	Network Medium	10Base-T: Cat 3, 4, 5 Class or above UTP/STP (≤100m)
		100Base-TX: Cat 5 Class or above UTP/STP (≤100m)
		1000Base-TX: Cat 5 Class or above UTP/STP (≤100m)
	Optical Media	Multimode optical fiber: 50/125, 62.5/125, 100/140um
		Single-mode optical fiber: 8/125, 8.7/125, 9/125, 10/125um
Environmental Standards	Working Environment	Working Temperature: -10~50°C
		Storage Temperature: -40~70°C
		Working humidity: 10%~90%, non-condensing
		Storage Temperature: 5%~95%, non-condensing
Mechanical	Structure Size	Product Dimensions: 320×207×44mm
		Package Dimensions: 370×290×85mm
		Product N.W: 1.78KG
		Product G.W: 2.28KG
	Packing Info	Carton Dimensions: 445×310×390mm
		Packing Quantity: 5 PCS
		Packing Weight: 12.4KG
	Power Voltage	Input Voltage: AC 100-240 V 50-60Hz
		Supply Power: 52V /3.84A
	Power	Non PoE board power: maximum 10W
		PoE power: maximum 180W

Product Specifications

Indicator	LED Indicators	PWR (Power)
		1-20 Green Light(Link&Data)
		1-16 (Yellow Light)
		PoE Led Key
	PWR	On: Powered on
		Off: Powered off
	1-20 Green Light (Link&Data)	On: Link normal
		Off: Link blocked
		Flashing: Data transmitting
	1-16 (Yellow Light)	On: PoE power supply is norma
		Off: PoE not powered
	PoE Max PoE power light (Green Light)	Off: Indicates PoE power usage is less than 90%
		Flashing: Indicates PoE power usage of 90% ≤ P ≤ 95%
		On: Indicates that PoE power is used at 95%<P<100%
	PoE Led Key	Dual color light selection: default green (link data), switch yellow light (PoE)
	Extend DIP Switch	OFF: Common mode, all interfaces can communicate with each other, the transmission distance is less than 100 meters, the transmission rate is 10/100/1000M adaptive
		ON: Link extension mode, 9-16 ports force 10M, link 250M (enable PoE watchdog),Port AI mode is enabled

Key Features

- 16×10/100/1000M PoE Ports+2×Gigabit Uplink+2×Gigabit SFP Ports
- Comply with IEEE802.3, IEEE802.3u, IEEE802.3ab Standard
- Ethernet ports support 10/100/1000M self- adaptive
- PoE priority is supported, from port 1 to port 16, which is enabled by default
- Flow control mode: full-duplex adopts IEEE 802.3x standard, half-duplex adopts Back pressure standard
- Zero configuration feature, automatically supplied to adaptive equipment
- Panel indicator monitoring status and help failure analysis
- With DIP switch, support Extend modes
- Support port lightning surge: common mode 4KV(level B); Electrostatic ESD: air 8KV, contact 6KV(level B)

Application Environment

- Metro Optical Broadband Network: Data network operators such as telecommunications, cable TV, and network system integration,etc
- Broadband private network: Suitable for financial, government, oil, railway, electric power, public security, transportation, education and other industries
- Multimedia transmission: Integrated transmission of images, voice and data, suitable for remote teaching, conference TV, videophone and other applications
- Real-time monitoring: Simultaneous transmission of real-time control signals, images and data

Ordering Information

Product Model	Description
HSGQ-SG2016P	20 Port Gigabit Intelligent Standard PoE Switch