

## ND-GS1622SFP Intelligent AI PoE Switch



### OVERVIEW:

ND-GS1622SFP the switch with 16 Gigabit RJ45 PoE ports + 2 Gigabit uplink RJ45 ports + 2 Gigabit SFP ports, Ports 1-16 support Power over Ethernet based on IEEE 802.3af/at standards. The maximum power of a single port reaches 30W. The output power of the device is 300W. PoE ports support watchdog servo function, if a port communication fault occurs, the corresponding port restarts automatically to recover network communication by itself, reducing manual intervention and maintenance. As a PoE power supply device, it can automatically detect and identify the PSE devices and supply power to them via twisted pair.

ND-GS1622SFP the switch adopts standard PSE chip, non-blocking design; lightning surge protection 6KV design; AI watchdog function, and PoE power usage indicator. It will save more costs, reduce more risks and bring more value to the establishment and operation of the security transmission ecosystem, and help to build the AI intelligent security transmission ecosystem.

### FEATURE:

#### Gigabit Fast Ethernet Access

- ◇ Provides 16\*10/100/1000Base-T RJ45 ports + 2\*1000Mbps uplink port and 2\*1000Mbps fiber optic interfaces for flexible networking to meet the networking needs of various scenarios.
- ◇ All ports support non-blocking wire-speed forwarding for smoother transmission.
- ◇ Support IEEE 802.3x full-duplex flow control and Backpressure half-duplex flow control.

#### Intelligent PoE power supply function

- ◇ 16 10/100/1000Base-TX RJ45 ports support PoE power supply to meet the demand of PoE power supply in various scenarios in the security field.
- ◇ Conforms to IEEE 802.3af/at PoE power supply standard, automatically identifies PoE devices for power supply, without damaging non-PoE devices. The maximum PoE output power of the whole machine is 300W, and the maximum PoE output power of a single port is 30W.
- ◇ The 16 POE power supply ports support 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 by itself, eliminating the trouble of manual maintenance.

### Easy to operate

- ◇ Plug-and-play, no need to configure, easy to use and maintain.
- ◇ Users can easily understand the working status of the device through the PoE working indicator.

### Innovative function

- ◇ Long distance mode (1): the switch is set to "ON" (default "OFF"), and the rate of ports 1-16 is reduced to 10M, so that the existing twisted-pair cable can be used to break the limitation of twisted-pair transmission of 100 meters, and the transmission distance can reach up to 250 meters. On the other hand, it can solve the problem of poor transmission caused by the aging of the line.
- ◇ VLAN mode (2): switch to "ON" (default "OFF") to open the physical VLAN isolation function of ports 1-16 to suppress broadcast storms and improve network performance.
- ◇ AI self-healing mode (3): switch to "ON" (default "OFF"), ports 1-16 open the watchdog function, which automatically detects the data communication status in real time, and when the port communication fails, the corresponding port POE will automatically restart and repair itself. Network communication, eliminating the trouble of manual maintenance.
- ◇ Fiber conversion mode (4): When the switch is set to "ON" (default "OFF"), the fiber optic interface is immediately will be converted to 2.5G, the fiber optic port is gigabit by default.

### Stable and reliable equipment

# 16\*10/100/1000Mbps Intelligent APoE Switch

## ND-GS1622SFP



- ◇ The host has low power consumption, fanless and silent design, galvanized steel metal shell, excellent heat dissipation, ensuring stable operation of the product.
- ◇ The equipment fully meets the requirements of 3C, CE and FCC safety regulations, and is safe and reliable to use.

### TECHNICAL SPECIFICATION:

Model	ND-GS1622SFP
Fixed Port	16*10/100/1000Base-TX PoE ports (Data/Power) 2*10/100/1000Base-TX uplink RJ45 port (Data) 2*1000/2500Mbps SFP Slot
Ethernet Port	Port 1-16 support 10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption
Function Switch	1 (1,2,3,4) four-position dip switch, the default state "OFF", "ON" after opening the function description as follows.
	1 is the "ON" state, port 1-16 can support long-distance transmission 10M/250m,when "OFF", 100 meters transmission.
	2 is the "ON" state,port 1-16 can support VLAN transmission mode
	3 is the "ON" state, port 1-16 can support AI self-healing mode; when"OFF", no communication self-healing function.
4 is the "ON" state, SFP optical port is 2.5G, when "OFF", SFP optical port is 1000Mbps	
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)

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Switching Capacity	40Gbps
Forwarding Rate@64byte	59.52Mpps
MAC	8K
Buffer Memory	4M
Twisted pairTransmission	10BASE-T : Cat3,4,5 UTP(≤250 meter) 100BASE-TX : Cat5 or later UTP(≤100 meter) 1000BASE-TX : Cat5 or later UTP(≤100 meter)
PoE Port	Port 1 to 8 IEEE802.3af/at @ POE
Power Supply Pin	Default 1/2 (+), 3/6 (-), optional 4/5(+), 7/8(-)
Single-port Max Power	30W, IEEE802.3af/at
Total PWR/ Input Voltage	300W (52VDC)
Power Supply	External power adapter,AC100~240V 50-60Hz 2A
Power Consumption	Standby<5W, Full load<300W
LED Indicator	POE work indicator: three lights are not lit, POE power indication: P <20W, LED1 light, 20W <p <40W (light 1 light); LED2 light, 40W <p <60W (light 2 lights); LED3 light, 60W <p <80W (light 3 lights); three lights flash at the same time, 80W <p
Operation TEMP/Humidity	-20°C+55°C, 5%~90% RH Non condensing
Storage TEMP/Humidity	-40°C+75°C, 5%~95% RH Non condensing
Dimension (L*W*H)	310mm*185mm*45mm
Weight	2.35kg
Installation	Desktop.Wall-mounted
Lightning protection /	Port lightning protection: 6KV 8/20us, Protection level: IP30

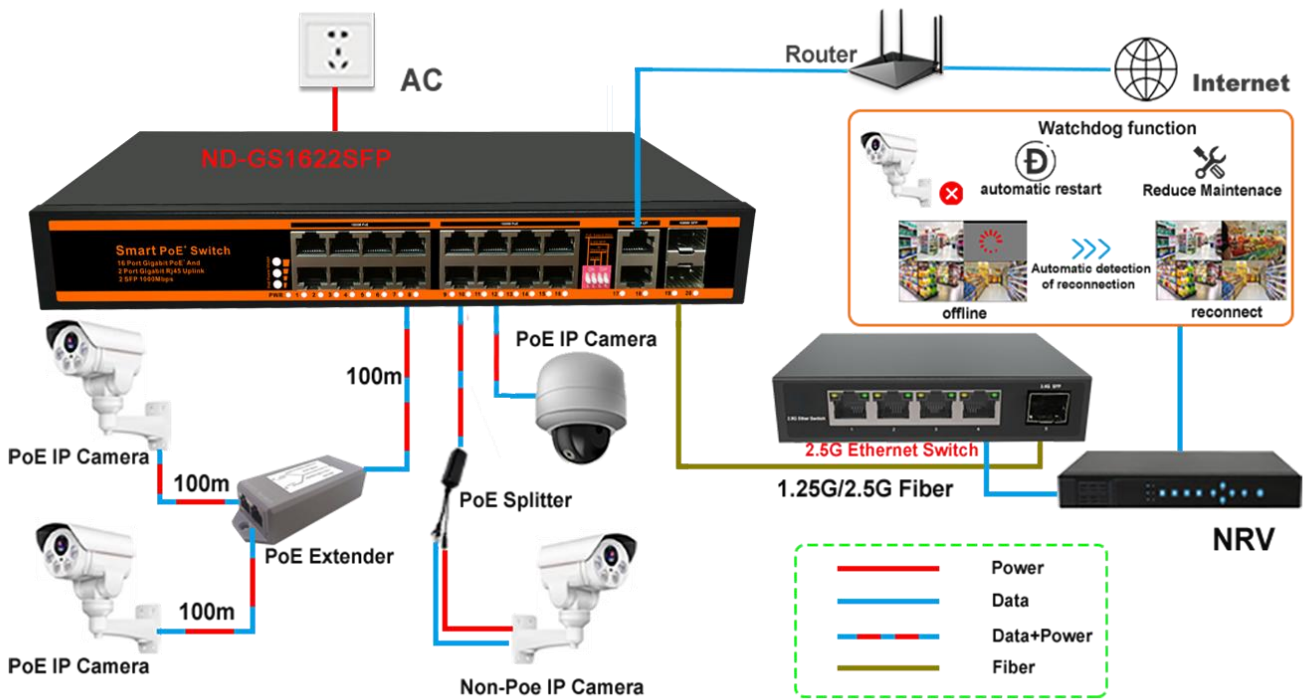
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protection level	
Warranty	3 years, lifelong maintenance

## APPLICATION



## Ordering Information:

Part No	Description of product	Unit
ND-GS1622SFP	16*10/100/1000Mbps PoE+Port,2*10/100/1000Mbps Uplink port, 2*1000Mbps SFPSlot . 1. Standard PSE chip ,Non-blocking design ,Support 8MP 2.AI watch dog function . 3.Lightning surge protection:6KV 4. DIP switch design :can freely choose 250m extended ,Vlan ,AI and 1.25G or 2.5G optical channel . 5 .3pcs LED indicators show power usage condition 6.power supply 300W	pc