

## FEATURES



- 16\*10/100/1000Mbps PoE ports, 2\*10/100/1000Mbps uplink port, 1\*1000Mbps SFP Slot
- Support IEEE802.3af/at
- Support restrain network storm, VLAN function
- Support Max Transmission distance up to 250m with PoE Power
- Support AI self-healing mode ( Watchdog function )
- The toggle horse can be switched at will without power
- All port supported by MDI/MDIX auto flip and self-negotiation
- Built-in power supply;
- Maximum power of single PoE port: 30 W
- Maximum PoE power: 300W
- Adopts store-and-forward architecture
- Fanless, natural cooling, small,compact and quiet design, suitable for desktop or wall

Newbridge®The 16-port 10/100/1000Mbps AI PoE switch provides seamless data connectivity for 10/100/1000Mbps Ethernet and PoE power for powered devices such as network surveillance cameras and wireless (AP).

The switch has 16\* 10/100/1000Mbps PoE+ ports + 2\* 100/1000Mbps uplink ports+ 1 Gigabit SFP ports, where 1-16 100/1000 Mbps downlink power ports all support powering PoE network cameras via UTP Category 5 and above unshielded twisted pair cables. 16 10/100/1000 Mbps adaptive RJ45 downlink ports all support 802.3af/at standard PoE power supply. Support priority mechanism, when the remaining power is insufficient, the power supply of the high priority port is guaranteed first to avoid overloading the equipment. The maximum PoE output power of the whole machine is 300W, and the maximum power supply power of individual ports is 30W.

The 16 ports of Power over Ethernet can achieve AI self-healing function (watchdog function) by toggling any dial horse switch in the case of non-stop power, 250m long distance + VLAN isolation mode , which automatically detects the data communication status in real time. When a port communication fault occurs, the corresponding port restarts automatically to recover the network communication and avoid manual maintenance.The Value lies in help to build the AI intelligent security transmission ecosystem.

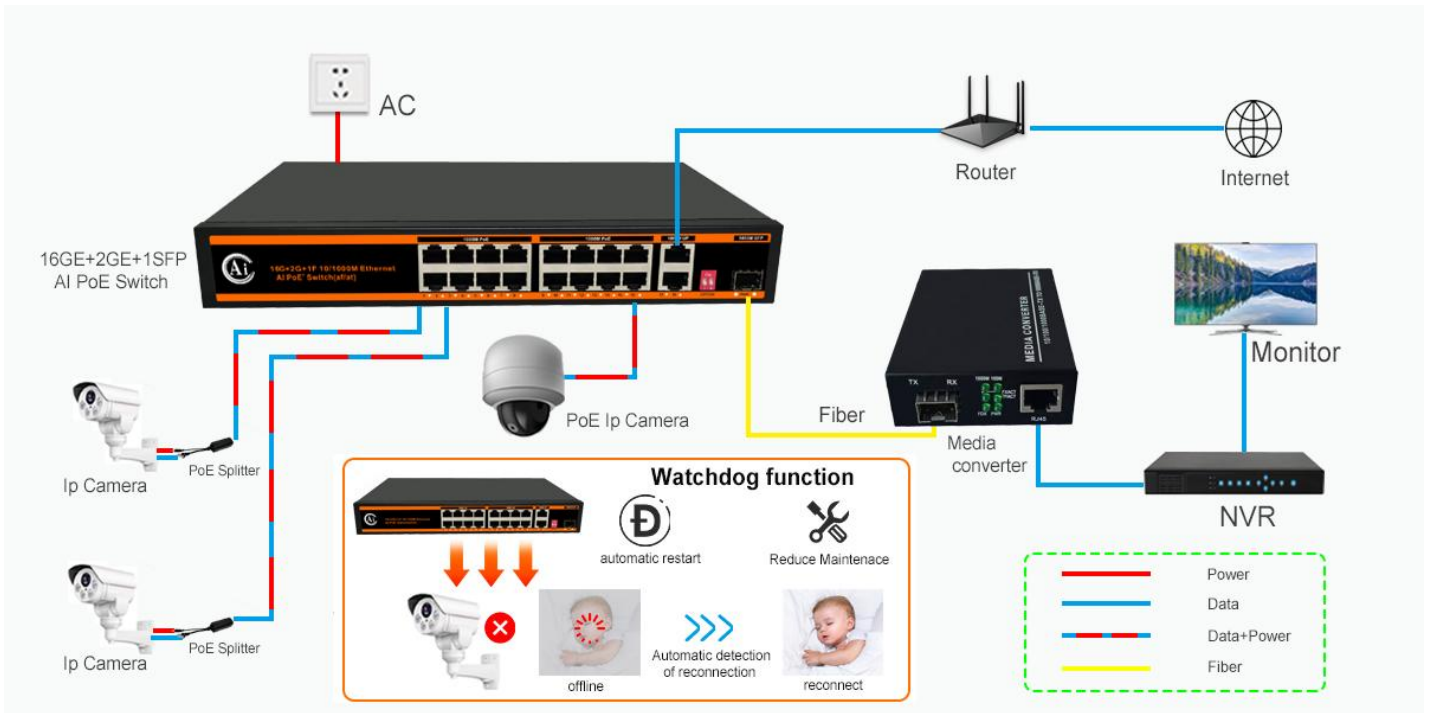
Users can easily understand the working status of the device through the power indicator and status indicator of each port, plug-and-play, no configuration required, simple and convenient.

**Specifications**

Model	ND-APG1621
Fixed Port	16*10/100/1000Base-TX PoE ports (Data/Power) 2*10/100/1000Base-TX uplink RJ45 port (Data) 1*1000Mbps 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) two-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 AI self-healing (modewatchdog function); when "OFF", no communication self-healing function.
	2 is the "ON" state, port 1-16 can support long-distance transmission 10M/250m+VLAN transmission mode, when "OFF", 100 meters transmission.
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	38Gbps
Forwarding Rate@64byte	28.272Mpps
MAC	8K
Buffer Memory	4M

Twisted pair Transmission	10BASE-T : Cat3,4,5 UTP(≤250 meter) 100BASE-TX : Cat5 or later UTP(≤100 meter)
PoE Port	Port 1 to 16 IEEE802.3af/at @ POE
Power Supply Pin	1/2/ 3/6 (+), 4/5/7/8(-) 8 cores supply power
Single-port Max Power	30W, IEEE802.3af/at
Total PWR/ Input Voltage	300W (52VDC)
Power Supply	External power adapter,AC100~240V 50-60Hz 1A
Power Consumption	Standby<4W, Full load<300W
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*183mm*45mm
Weight	2.06kg
Installation	Desktop.Wall-mounted

**Application**



**Order Information**

Part No	Description of product	Unit
ND-APG1621	19 ports switch with 16*10/100/1000M bit PoE ports,2*10/100/1000M Uplink Port,1*1000Mbps SFP Slot,PoE Standard: IEEE 802.3af/at,PoE data & power transmission distance 100meters(100Mbps),250meters(10Mbps) ,1-16PORT support Watchdog function	pc