



## PS1600G series

### 16-port Gigabit Ethernet Switch

#### With 802.3af / 802.3at Power over Ethernet



The PS1600G series features a 16-ports 10/100/1000Mbps Gigabit Ethernet Switch with IEEE 802.3at/af Power over Ethernet interfaces. It supports MDI/MDI-X function on all 10/100/1000Mbps ports and provides Power injection on each LAN port which complies to IEEE 802.3af (15W) and 802.3at (30W) PoE powered devices.

With N-way auto-negotiation, each port can automatically sense if the connected network devices are running at 10Mbps or 100Mbps or 1000Mbps and Half/Full-Duplex mode, and adjust accordingly. All the ports support wire-speed in full-duplex mode by using non-blocking 32Gbps switching backplane. With the store and forward features, it maximizes network performance and allows running a smooth network.

The 19" rack-mounted PS1600G series offers a more flexible and economic PoE option and greatly simplified the tasks of upgrading network equipments. It provides a simple, cost-effective, and reliable network connection for data and power over Ethernet.

#### Key Features:

- 16-Port 10/100/1000Mbps Gigabit Ethernet Switch with 16-port Power over Ethernet (PoE) function
- Complies with IEEE 802.3af / 802.3at PoE+ standards.
- Auto MDI/MDI-X detection on each RJ-45 port
- Support 10/100/1000Mbps N-way auto-negotiation
- 8K MAC address table, automatic source address learning and aging
- 19-inch rack mount size with holder
- Internal full-range power supply suitable for worldwide use
- Complies with CE, FCC class A

Providing up to 16-port PoE+, in-line Ethernet interface, the PS1600G series can easily build a power central-controlled IP phone system, IP Camera system, AP group for the enterprise applications. For instance, 16 cameras / APs can be easily installed around the corner in the company for surveillance demands or to build a wireless roaming environment in the office. Without the power-socket limitation, the PS1600G series makes the installation of cameras or WLAN AP easier and more efficient.

### Application Diagram



### Specifications:

Model	PS1600G series
<b>Hardware Specification</b>	
Fast Ethernet Ports	16 x 10/100/1000Base-T RJ-45 Auto MDI/MDI-X ports
Power over Ethernet ports	16-port with PoE+ power injector function
Switch Processing Scheme	Store-and-Forward
Switch fabric	32Gbps
Mac Address Table	8K
Jumbo Frame	9KB
Buffer Memory	256KB
Flow Control	Back pressure for half duplex, IEEE 802.3x Pause Frame for full duplex



Dimension (W x D x H)	480 x 200 x 44 mm (1U height)
Weight	2.9 kgs
Power Requirement	100-240V AC, 50-60 Hz, 5A
Temperature	Operating: 0~50 Degree C Storage: -40~70 Degree C
Humidity	Operating: 5~90% (Non-condensing) Storage: 5~90% (Non-condensing)
<b>Power over Ethernet</b>	
PoE Standard	IEEE 802.3af / 802.3at Power Sourcing Equipment (PSE)
PoE Power Supply Type	End-Span
PoE Power Output	Per Port 56V DC, Max. 15.4 watts (802.3af) or 30 watts (802.3at)
Power Pin Assignment	1/2(+), 3/6(-)
Power Budget	Max. 500 watts (PS1600GA) or 250 watts (PS1600G)
<b>Standards Conformance</b>	
Regulation Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 : Ethernet IEEE 802.3u : Fast Ethernet IEEE 802.3ab : Gigabit Ethernet 1000Base-T IEEE 802.3x : Full-duplex Flow control IEEE 802.3az : Energy Efficient Ethernet. IEEE 802.3at / 802.3af : Power over Ethernet

#### Ordering Information

PS1600GA	16-Port 10/100/1000Mbps with 16-Port 802.3at/af PoE+ Switch, 500 watts PoE budget
PS1600G	16-Port 10/100/1000Mbps with 16-Port 802.3at/af PoE+ Switch, 250 watts PoE budget

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