



PS1600 series

16-port Fast Ethernet Switch

With 802.3af / 802.3at Power over Ethernet



The PS1600 series features a 16-ports 10/100Mbps Fast Ethernet Switch with IEEE 802.3at/af Power over Ethernet interfaces. It supports MDI / MDI-X function on all 10/100Mbps ports and provides Power injection on each LAN port which complies to IEEE 802.3af (15W) or 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 and Half/Full-Duplex mode, and adjust accordingly. All the ports support wire-speed in full-duplex mode by using non-blocking 3.2Gbps switching backplane. With the store and forward features, it maximizes network performance and allows running a smooth network.

The 19" rack-mounted PS1600 series also support 8+8 optional PoE switch with 8 x PoE ports plus 8 x non-PoE ports. This 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 10/100Mbps Fast Ethernet Switch with 16-port / 8-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 10/100Mbps N-way auto-negotiation
- 4K 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 PoE, in-line Ethernet interface, the PS1600 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 PS1600 series makes the installation of cameras or WLAN AP easier and more efficient.

Application Diagram



Specifications:

Model	PS1600 series
Hardware Specification	
Fast Ethernet Ports	16 x 10/100Base-T RJ-45 Auto-MDI / MDI-X ports
Power over Ethernet ports	16-port / 8-port with PoE injector function
Switch Processing Scheme	Store-and-Forward
Throughput (packet per second)	2.38Mpps
Switch fabric	3.2Gbps
Address Table	4K entries
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	2.7 kgs
Power Requirement	100-240V AC, 50-60 Hz, 3A
Temperature	Operating: 0~50 Degree C Storage: -40~70 Degree C
Humidity	Operating: 5~90% (Non-condensing) Storage: 5~90% (Non-condensing)
Power over Ethernet	
PoE Standard	IEEE 802.3af / 802.3at Power Sourcing Equipment (PSE)
PoE Power Supply Type	End-Span
PoE Power Output	Per Port 48V DC, Max. 15.4 watts (802.3af) or 30 watts (802.3at)
Power Pin Assignment	1/2(+), 3/6(-)
Power Budget	Max. 500 watts (PS1600-16A) or 250 watts (PS1600-16 or PS1600-8A)
Standards Conformance	
Regulation Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 : Ethernet IEEE 802.3u : Fast Ethernet IEEE 802.3x : Full-duplex Flow control IEEE 802.3af / 802.3at : Power over Ethernet

Ordering Information	
PS1600-16A	16-Port 10/100Mbps with 16-Port 802.3at/af PoE Switch, 500 watts PoE budget
PS1600-8A	16-Port 10/100Mbps with 8-Port 802.3at/af PoE Switch, 250 watts PoE budget
PS1600-16	16-Port 10/100Mbps with 16-Port 802.3af PoE Switch, 250 watts PoE budget
PS1600-8	16-Port 10/100Mbps with 8-Port 802.3af PoE Switch, 125 watts PoE budget
PS1600-LS	16-Port 10/100Mbps Fast Ethernet Switch

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