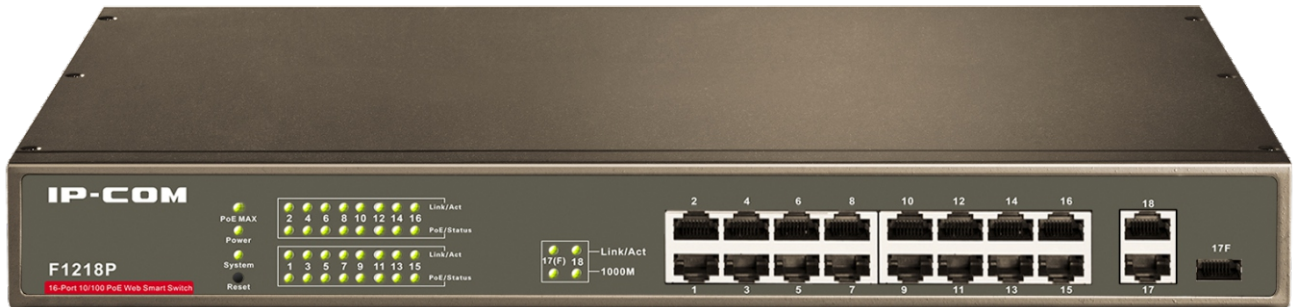## 16-Port 10/100Mpbs PoE Web Smart Switch

Products Description

F1218P is 16-Port PoE Web Smart Switch with 2 GE ports, providing 16 10/100 Base-TX Ethernet ports, 2 10/100/1000 Base-T Ethernet ports and 1 1000Base-X SFP ports. 1-16 port supports IEEE 802.3af PoE(15.4W) or 802.3at PoE+(30W) standard and provides DC power and data signal transmission for AP, IP Phone and IP Camera through category 5 twisted pair. Support PoE management, VLAN, Link Aggregation,QoS, MAC address binding, to protect the users` networking privacy and provide DC power for remote devices. Less wire, easy installation and less time to optimize user` investment.

Features

Excellent PoE performance
1-16 port supports IEEE 802.3af PoE(15.4W) and 802.3at PoE+(30W) standard, PoE output full power up to 162W. Providing DC power and data signal transmission for AP, IP Phone and IP Camera through category 5 twisted pair.

Reliable industrial grade design
Quality: Mean Time Between Failures--MTBF≥100,000 hours
Stability: 64 byte packet, time delay less than 10µs, packet loss ratio: 0
Restorability: when network is not stable or error occurs, reboot time less than 10s
Normal operating: operating in -10ºC to 45ºC, device service time over 3 years

Flexible ports
Providing 16 10/100Mbps autosensing ports, 2 10/100/1000Mbps autosensing RJ45 port , 1 1000Base-X SFP ports and all port support wire-speed forwarding. Flexible ports make users to enjoy seamless connection
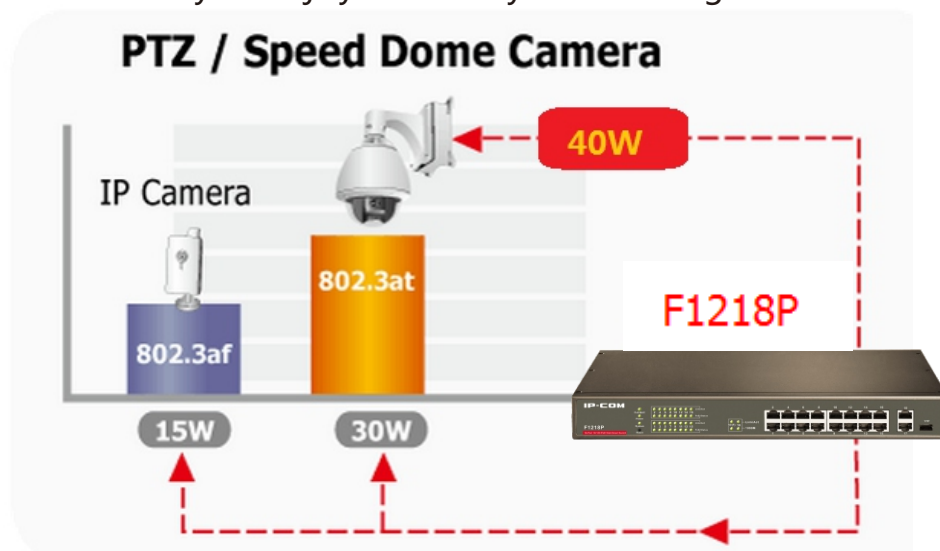
Green energy conservation design
Built-in advanced PoE chip with energy-conservation, ports can auto-switch to energy-conservation status. Support smart fan system. Users can adjust the fan speed according to device temperature to reduce power consumption to reduce operation cost.

Excellent maintenance
Frontpanel switch design, support auto-adjust and smart power management to setup the priority of power supply at your pleasure. Kinds of networking management such as Web and SNMP make easy maintenance.

Easy smart management
Support easy management, such as QoS, Link Aggregation,VLAN, ACL etc to prevent MAC attack to make you enjoy a security networking.

Key Features

Simple Intelligent Management

The product supports QoS, link intergrations, VLAN and ACL . etc. It can prevent the attack from other MACs, to comprehensively guarantee the safety of your network.
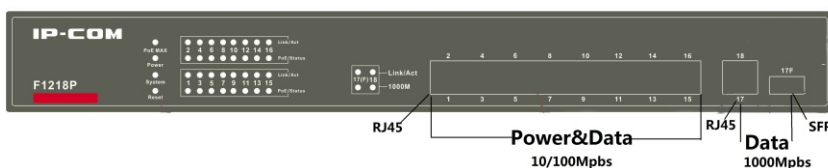

Industrial design for high reliability

Quality: fault-free worktime of the system--MTBF ≥ 100 thousand hours. Stability: 64 bits, lifetime ≤10μs, packet loss probability: Recoverability: reboot time ≤10s, when the network turbulence or failures appear.

Energy-saving design

The switch employs advanced PoE enery-saving chips. When no data and power is delivered, the interfaces will automatically turn into energy-saving status and use the intelligent fan systemwhich can auto-adjust the fan rate to reduce power dissipation to the furthest , to reduce the operating costs.

Flexiable prots' states

The switch supports 16 10/100Mbps NWAY RJ45 ports, 2 10/100/1000 Mbps NWAY RJ45 ports and 1 reusable 1000Base-X Gigabit SFP ports, with auto MDI/MDIX on all ports and rich ports states, allowing users to seamlessly connect all the nets.

Specification

Hardware Specifications	
10/100Mbps Copper Ports	16 10/100Base-TX RJ-45 Auto-MDI/MDI-X ports
Gigabit Copper Ports	2 10/100/1000Base-T RJ-45 Auto-MDI/MDI-X ports
SFP/mini-GBIC Slots	1 1000Base-X SFP interfaces, shared with Port-17
Switch Architecture	Store-and-Forward
Switch Fabric	7.2Gbps / non-blocking
Throughput	5.35Mpps@64Bytes
Address Table	4K entries, automatic source address learning and ageing
Share Data Buffer	2.75Mb embedded memory for packet buffers
Flow Control	IEEE 802.3x pause frame for full-duplex
	Back pressure for half-duplex
Jumbo Frame	1536 Bytes
Reset Button	< 5 sec: System reboot
	> 5 sec: Factory Default
Dimensions (W x D x H)	440 x 208 x 44 mm, 1U height
Weight	2.55kg
Cable Twisted-Pair	10Base-T: 2-Pair UTP CAT. 3, 4, 5, up to 100 meters
	100Base-TX: 2-Pair UTP CAT. 5, 5e up to 100 meters
	1000Base-T: 4-Pair UTP CAT. 5e, 6 up to 100 meters
Power Requirements	100~240V AC, 50/60Hz, 4A
Power Consumption	Max. 200 watts
ESD Protection	2KV DC
Power over Ethernet	
PoE Standard	IEEE 802.3af / 802.3at PoE / PSE
PoE Power Supply Type	End-span
PoE Power Output	Per Port 56V DC, Max. 40 watts
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Budget	162 watts (max.)
PoE Ability PD @ 7 watts	16 units
PoE Ability PD @ 15.4 watts	10 units
PoE Ability PD @ 30.8 watts	5units

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Specification

Software Feature(Layer 2 Functions)	
Port Configuration	Port disable / enable
	Auto-negotiation 10/100/1000Mbps full and half duplex mode selection
	Flow Control disable / enable
Port Status	Display each port's speed duplex mode, link status, flow control status, auto negotiation status and trunk status
Port Mirroring	TX / RX / Both
	Many-to-1 monitor
VLAN	802.1Q tagged-based VLAN, up to 30 VLAN groups, out of 4094 VLAN IDs
	Port-based VLAN, up to 18 VLAN groups
	MTU VLAN
Link Aggregation	2 groups of 4-Port 10/100Base-TX trunk supported
	1 group of 2-Port 10/100/1000Base-T trunk supported
DHCP	Support DHCP Snooping、 DHCP Relay/Client/Server
	Support DHCP Snooping Option82/DHCP Relay Option82
QoS	Allow to assign low / high priority on each port
	First-In-First-Out, All-High-before-Low, Weight-Round-Robin QoS policy
IGMP Snooping	IGMP (v1/v2) Snooping, up to 32 multicast groups
Security Control	MAC address binding
Management Functions	
Basic Management Interfaces	Web Browser, SNMP v1\v2
Standards Conformance	
Regulation Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3、 IEEE 802.3u、 IEEE 802.3z、 IEEE 802.3ab、 IEEE 802.3x、 IEEE 802.1D、 IEEE 802.1Q 、 IEEE 802.1p、 IEEE 802.1x、 IEEE 802.1W、 SNMP、 IGMP、 IEEE 802.3af、 IEEE 802.3at
Environment	
Operating	Temperature: 0 ~ 50 degrees C
	Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -10 ~ 70 degrees C
	Relative Humidity: 5 ~ 95% (non-condensing)

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