

16-Port Gigabit PoE Switch



Product Overview

The KL-0016G-16+2GE series unmanaged intelligent PoE switch adopts a high-performance non-blocking enterprise-grade network switch IC and a standard PoE chip. It features 16 Gigabit PoE ports, 2 Gigabit uplink electrical ports, and 1 Gigabit SFP optical port, providing seamless connectivity for 10/100/1000M Ethernet. Ports 1-16 support IEEE 802.3af/at standard PoE power supply, with a single-port PoE power output of up to 30W. All service ports support 4KV lightning protection and feature one-click port VLAN functionality, PoE watchdog automatic troubleshooting, 200-meter long-distance transmission, and other AI modes to ensure efficient project network implementation and reduce maintenance costs. It is suitable for building cost-effective networks in scenarios such as security monitoring, smart cities, schools, industrial parks, hotels, banks, hospitals, government and enterprise clients, scenic spots, supermarkets, and small and medium-sized enterprises.

Unmanaged models are plug-and-play, require no configuration, and are simple and convenient to use.

Technical Parameters

KL-0016G-16+2GE Series Smart PoE Switch Product Specifications

model		KL-0016G-16+2GE
Port characteristics		
Fixed port	Downlink Port	16 10/100/1000 Base-T RJ45 network ports
	Uplink port	Two 10/10 0/1000 Base-T RJ45 Ethernet ports + one 1000Base-X SFP optical port slot
	PoE port	Ports 1-16 support PoE power supply according to AF/AT standards, with a transmission distance of up to 200 meters.
Network port features		10/100 /1000M adaptive , full / half duplex MDI/MDI-X adaptive
Twisted pair transmission		10BASE-T: Cat3,4,5 UTP (≤ 10 0 meter) 100BASE-TX : Cat5 or later UTP(≤ 100 meter) 100 0 BASE-T : Cat 5e or later UTP (≤ 100 meter)
Optical port characteristics		Gigabit SFP fiber optic interface, optical module not included by default, must be purchased separately (optional single-mode/multimode, single-fiber/dual-fiber optical modules, LC /SC).
optical cable		Multimode: 850nm / 0 ~550M (50µm /125µm & 62.5µm/125µm) Single-mode: 1310nm / 0 ~ 40KM, 1550nm / 0 ~ 120KM ()
DIP switch	1st gear	Port VLAN function
	2nd gear	PoE Watchdog
	3rd gear	1-16 port long-distance transmission
Note: The above function switches are in the "OFF" state by default. They are turned on when set to "ON". Each function can be used independently.		
Exchange chip parameters		
Network Management Type		Non-network management
Network Protocol		IEEE802.3 10Base-T; IEEE802.3i 10Base-T; IEEE 802.3u 100Base-TX; IEEE 802.3x Flow Control; IEEE 802.3ab 1000Base-T ; IEEE 802.3 z 1000Base- X ; IEEE 802.3af DTE Power via MDI; IEEE 802.3at DTE Power via MDI;
Forwarding mode		Store-and-forward
Backplane bandwidth		38 Gbps
Packet forwarding rate @ 64 bytes		28.27 Mpps
MAC address table		4K
Packet forwarding cache		4Mb
Giant Frame		9.2K
LED indicator light		Power indicator : P WR (green) ; Network indicator: 1-18 (green); Optical port indicator: 19 (green)
MTBF		100,000+ hours

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PoE and power characteristics	
PoE port	1-16 support IEEE 802.3af/at standard PoE power supply.
Power supply pin	Default 1/2(+), 3/6(-) 4-pin power supply
Maximum PoE power per port	30W, standard IEEE802.3af/at
Total power / input voltage	300 W (AC100-240V)
Overall power consumption	Standby power consumption: < 8 W; Full load power consumption: < 240 W
power supply	Built-in switching power supply AC: 100 ~ 240V 50-60Hz 5.5 A
Physical specifications	
Operating temperature/humidity	-20 to +55°C; 5% to 90% RH non-condensing
Storage temperature/humidity	-40 to +75°C; 5% to 95% RH non-condensing
External dimensions / Packaging dimensions (L*W*H)	310*205*44mm / 340*282*74mm
Net weight/Gross weight	< 1.62 kg / < 2.16kg
Installation method	Desktop and rack-mount installations
Product Certification and Warranty	
Lightning protection/protection level	Port surge protection: 4KV; Protection rating: IP 30
Electrostatic discharge (ESD) protection	Contact discharge: 8KV; Air discharge: 15KV
Safety certification	CE , FCC , RoHS
Warranty period	1 year
Packing list	
equipment	1 unit
power cord	1 piece
Product Manual	1 copy
Warranty card and certificate of conformity	1 copy

Ordering Information

Equipment Name	Equipment Information	Standard power supply
KL-0016G-16+2GE	This is a non-managed PoE switch with 16 10/ 100/1000M Ethernet ports , 2 10/ 100 /1000M uplink ports , and 1 1000M SFP optical port. Ports 1-16 support the IEEE 802.3af/at international standard, intelligent power supply detection, function switches, port VLAN isolation, PoE watchdog (automatic restart) function, long-distance transmission, and other AI functions. It also has a built-in power supply .	AC100-240 V

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