

Full-Gigabit 8+2GE Smart PoE Switch



Product Overview

The KL-008G-8+2GE series unmanaged intelligent PoE switch adopts a high-performance non-blocking enterprise-grade network switch IC and a standard PoE chip. It features eight Gigabit PoE ports and two Gigabit uplink power ports, providing seamless connectivity for 10/100/1000M Ethernet. Ports 1-8 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.

KL-008G-8+2GE Series Smart PoE Switch Product Specifications

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

Technical Parameters

model		KL-008G-8+2GE	
Port characteristics			
Fixed port	Downlink Port	8 x 10/100/1000 Base -T RJ45 Ethernet ports	
	Uplink port	Two 10/10 0/1000 Base-T RJ45 network ports	
	PoE port	Ports 1-8 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)	
DIP switch	1st gear	Port VLAN function	
	2nd gear	PoE Watchdog	
	3rd gear	1-8 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 (full line speed)	
Backplane bandwidth		20 Gbps (non-blocking)	
Packet forwarding rate @ 64 bytes		14.88 Mpps	
MAC address table		4K	
Packet forwarding cache		4Mb	
Giant Frame		9.2K	
LED indicator light		Power indicator : PWR (green) ; Network indicator: 1-10 (green)	
MTBF		100,000+ hours	

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PoE and power characteristics	
PoE port	1-8 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	120 W (AC100-240V)
Overall power consumption	Standby power consumption: < 3 W; Full load power consumption: < 65 W
power supply	Built-in switching power supply AC: 100 ~ 240V 50-60Hz 1.0 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)	202 × 140 × 44 mm
Net weight/Gross weight	< 0.58 kg / < 0.70 kg
Installation method	Desktop and wall-mounted installation
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
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-008G-8+2GE	is a non-managed PoE switch with eight 10/ 100/1000M Ethernet ports and two 10/ 100 /1000M uplink ports . Ports 1-8 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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