

Full-Gigabit 2-Fiber 24-Copper Web-Managed PoE Switch



Product Overview

The KL-0024G-SFP series full gigabit web-managed PoE switch features 24 gigabit Ethernet ports + 2 gigabit uplink SFP optical port slots. All ports support line-speed forwarding and 4KV port surge and electrostatic discharge protection. Ports 1-2 support IEEE 802.3bt PoE power supply with a maximum power of 90W per port, while ports 3-24 support IEEE 802.3af/at PoE power supply with a power of 30W per port. This allows for stable operation of high-power devices such as network PTZ cameras, wireless AP clusters, 4K HD cameras, and smart access control systems. Its unique hybrid optical and electrical architecture supports fiber-optic deployment over distances up to 120km, and direct connection to PoE terminals via RJ45 ports saves up to 80% on low-voltage cabling costs in high-density power supply scenarios such as hotels, campuses, industrial parks, supermarkets, banks, scenic spots, factory dormitories, and SMB small and medium-sized enterprises.

The KL-0024G-SFP switch supports web management and the RSTP (Rapid spanning Tree Protocol) with a latency of <50ms, improving link backup and network reliability, reducing the number of fiber optic connections and network nodes, and increasing construction efficiency. In the event of a unidirectional network failure, it can quickly restore communication, ensuring zero-interruption communication for critical transmissions. It

KL-0024G-SFP Series Web Managed PoE Switch Product Specification

implements functions such as security network flow control management, VLAN segmentation, link aggregation, port management, PoE control, port mirroring, port isolation, storm suppression, and remote maintenance. This switch is highly reliable, easy to install and maintain, features fast switching capabilities, and has multiple access ports, making it suitable for LAN devices of various sizes. It provides users with a stable, reliable, and easy-to-manage all-gigabit managed PoE switch solution.

Technical Parameters

model		KL-0024G-SFP
Port characteristics		
fixed port	Downlink Port	24*10/100/1000 Base -T RJ45 network ports
	Uplink port	Two 100 /1000Base-X SFP optical port slots
	PoE port	Ports 1-2 support PoE power supply according to AF/AT/BT standards, and ports 3-24 support PoE power supply according to AF/AT standards, supporting long-distance transmission up to 250 meters.
	Power interface	1 AC100-240V power interface
Network port features		10/100/1000M adaptive , full / half duplex MDI/MDI-X adaptive
Twisted pair transmission		10BASE-T: Cat3,4,5 UTP (≤ 25 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 1.25G 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. 9.5µm/125µm
Exchange chip parameters		
Network Management Type		Web 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 802.3ad port trunk with LACP

KL-0024G-SFP Series Web Managed PoE Switch Product Specification

	IEEE 802.1Q VLAN tagging IEEE 802.1x Port Authentication Network Control IEEE 802.3af DTE Power via MDI IEEE 802.3at DTE Power via MDI IEEE 802.3bt DTE Power via MDI
Forwarding mode	Store-and-forward (full line speed)
Backplane bandwidth	52 Gbps (non-blocking)
Packet forwarding rate @ 64 bytes	38.69 Mpps
MAC address table	8K
Packet forwarding cache	4Mbits
Giant Frame	10Kbytes
LED indicator light	Power indicator : PWR (green) ; Ethernet port indicator: 1-24 (green); Optical port indicator: 25-26 (green); PoE indicator: 1-24 (green)
One- key restore switch	1. Press and hold for 6 seconds , then release to restore factory settings.
MTBF	Mean time between failures ≥ 50,000 hours
Network management features	
Port Management	Supports port status display/control Supports port traffic statistics Supports port duplex/negotiation rate configuration Supports IEEE 802.3x flow control configuration (full duplex). Supports jumbo frame settings
VLAN	Supports port-based IEEE 802.1 Q VLAN configuration (4K VLANs). Supports port VLAN ID definition, port member specification, and port label setting.
QoS	Supports port priority configuration Supports port DSCP remapping Supports setting queue priority and Q-queue weight.
IGMP	Supports port multicast partitioning
Link Aggregation	Supports static aggregation , up to 8 items.
Loop protection	Supports loop prevention function Supports loop detection function Supports RSTP spanning tree ring network protocol, RSTP global configuration, and RSTP port configuration.
Mirror	Supports basic port traffic mirroring , allowing you to specify the monitoring and monitored ports.
Safety features	Support broadcast storm suppression Supports port rate limiting Support port isolation Supports MAC address constraint control, lookup, and static MAC blacklist/whitelist settings.
Management and maintenance	Supports web management (supports HTTPS) , and allows modification of default account passwords. Supports NTP clock protocol Supports DHCP address acquisition and manual modification of management address. Supports IEEE Ethernet power-saving configuration Supports one-click restore Supports port statistics Supports online firmware upgrades and configuration backup import/export. Supports remote restart, scheduled restart, and manual restart.
PoE and power characteristics	
PoE port	Ports 1-2 support the IEEE 802.3af/at /bt standard, and ports 3-24 support IEEE 802.3af/at standard PoE power supply.
PoE Management	PoE enabled/disabled per port

KL-0024G-SFP Series Web Managed PoE Switch Product Specification

	Real-time PoE power display and monitoring per port
Power supply pin	By default, ports 1-2 have 8-pin power supply (1/2/4/5 +, 3/6/7/8 -) ; ports 3-24 have 4-pin power supply (1/2 +, 3/6 -) .
Maximum PoE power per port	Ports 1-2 have a maximum power consumption of 90W, conforming to the IEEE 802.3af/at /bt standard; ports 3-24 have a maximum power consumption of 30W, conforming to the IEEE 802.3af/at standard.
Input voltage and interface	AC100-240V input
Overall power consumption	Standby power consumption: < 6 W; Full load power consumption: < 400 W
power supply	Built-in switching power supply, input AC: 100~240V 50-60Hz 7.5A
Physical specifications	
Operating temperature/humidity	-20 to +55 ° C; 5% to 90% RH non-condensing
Storage temperature/humidity	-40 to + 85 ° C; 5% to 95% RH non-condensing
Product/Packaging Dimensions	440*220*45mm / 497*300*93mm
Net weight/Gross weight	< 2.7 kg / < 3.43 kg
Installation method	Desktop and rack mounting
Product Certification and Warranty	
Lightning protection/protection level	Port surge protection: 4 KV; Protection rating: IP 30
Electrostatic discharge (ESD) protection	Contact discharge: 8KV; Air discharge: 15KV
Safety certification	CE , FCC , RoHS , CCC
Warranty period	1 year
Packing list	
equipment	1 unit
power cord	1 piece
Install ear loops	1 pair
Product Manual	1 copy
Warranty card and certificate of conformity	1 copy

Ordering Information

Equipment Name	Equipment Information	Standard power supply
KL-0024G-SFP	This is a web-managed PoE switch with 24 10 / 100/1000M network ports and 2 100/1000M uplink SFP optical port slots . Ports 1 and 2 support IEEE 802.3bt power supply with a single port power of 90W, while ports 3-24 support IEEE 802.3af/at power supply with a single port power of 30W. It has an internal power supply and is suitable for desktop and rack mounting.	AC100-240V

illustrate:

1、 This product does not come with an SFP optical module by default. If you need to purchase one, please