

KDS-5GE22GF-SFP2

8 Port Industrial PoE Switch with 2 SFP



Specification

Model	KDS-5GE22GF-SFP2	
Product Name	8 Port 10/ 100/ 1000M Managed Industrial PoE Switch	
Interface	8x 10/ 100/ 1000Base-T Ports PoE +2x Gigabit SFP Slots + 1 Console Port	
Network Protocols	IEEE802.3 10Base-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX/FX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x, IEEE802.3af, IEEE802.3at	
PoE	PoE Standard : IEEE802.3sf / IEEE802.3at	
	PoE Ports : 1-8 Ports Support PoE	
	Power Output	Max. 15.4 watts (IEEE802.3af)
		Max. 30 watts (IEEE802.3at)
	PoE Port Auto Detect AF/ AT Devices	
	Output Voltage : DC52V	
	Power Pin Assignment 1/2, 3/6-	
	Power Type : End-span (Mid-span Optional)	
Network Media	10Base-T : Cat3, 4, 5 UTP (≤100 meter)	
	100Base-TX : Cat5 or later UTP (≤100 meter)	
	1000Base-TX : Cat6 or later UTP (≤100 meter)	
Fiber Media	Single-mode	20/40/60/80KM
	Multi-mode	2KM
Performance	Bandwidth	20Gbps
	Packet Buffer Memory	2M
	Packet Forwarding Rate	1488000pps/ port
	MAC Address Table	16K
Forwarding Mode	Store-and-Forward	
Protection	Lightening Protection, IP40 Protection	
LED Indicators	Power : PWR, OPT/ Link, PoE, Link/ Act	
Power Supply	Input Voltage : DC52V (48 - 57V) / Terminal Block	

KDS-5GE22GF-SFP2

Layer 2 Switching

Spanning Tree Protocol (STP)	Standard Spanning Tree Protocol (STP) 802.1d
	Rapid Spanning Tree Protocol (RSTP) 802.1w
	Multiple Spanning Tree Protocol (MSTP) 802.1s
G.8032 ERPS	<50ms ring protection for industrial high reliable application
Aggregation	Link Aggregation Control Protocol (LACP) IEEE802.3ad, Up to 7 groups, Up to 14 ports per group
VLAN	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs), Port-based VLAN, IEEE 802.1Q tag-based VLAN
IGMP v1/ v2 Snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters, support 256 multicast groups
GMRP	Supports GARP Multicast Registration Protocol
MAC	Locks MAC Address to ports, Learned MAC Address limiting
QOS	Based on 802.1p (COS) classification, Based on DSCP classification
	Based on the source IP, destination IP, port number classification
	Support SP, WRR, DRR scheduling strategy, Support traffic speed limit CAR
MPLS	MPLS supports static LSP
	Support VPN MPLSv
LLDP	Supports LLDP link discovery protocol
System Management	User add/ Delete user, User Login, Operation, Status, Event log Device Reset, configuration save/ restore, upgrade management, time setting

Security

Secure Shell (SSH) Protocol	SSH secure Tel Net traffic in or out the switch, SSH v1 & v2 are supported
Secure Sockets Layer (SSL), TTPS	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch
Port Security	Locks MAC Addresses to ports, and limits learned MAC addresses
DHCP Snooping	Prevent unauthorized configuration & use of IP addresses, while providing support for IP Source Guard & ARP detection
ACLs	Support for up to 256 entries, drop or rate limitation based on source and destination MAC, VLAN ID or IP address, Protocol, Port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag
IP Source Guard	Prevents datagram with spoofed addresses from being in the network
ARP Inspection	Prevent ARP spoofing attacks & ARP
Storm Control	Prevents traffic on a LAN from being disrupted by broadcast, multicast, or unicast storm on a port

KDS-5GE22GF-SFP2

Management (Web/ SSL, Telnet/ SSH, Trival File Transfer Protocol, SNMP, Syslog)

Web GUI Interface	Built-in swit configuration utility for browser-based device configuration (HTTP/ HTTPS). Support configuration, system dashboard, maintenance, and monitoring
Dual Image	Dual image provides independent primary and secondary OS files for backup while upgrading
Firmware Upgrade	Web browser upgrade (HTTP/ HTTPS) and TFTP, Upgrade through console port
Port Mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port A single session is supported
Other Management	Single IP management, HTTP/ HTTPS, SSH, RADIUS, DHCP Client, SNTP, Cable diagnostics, Ping, Syslog, Telnet client (SSH secure support)

Other Soecification

Working Environment	Working Temperature	-20°C - +70°C
	Storage Temperature	-20°C - +70°C
	Relative Humidity	5% - 95% (no condensation)
Industry Standard	FCC CFR47 Part 15, EN55022/ CISPR22, Class A EMS	
	IEC61000-4-2 (ESD) : ±8kV (contact), ±15kV (Air)	
	IEC61000-4-3 (RS) : 10V/m (80MHz-2GHz)	
	IEC61000-4-4 (EFT) : Power Port : ±4kV, Data Port : ±2kV	
	IEC61000-4-5 (Surge) : Power Port : ±2kV/ DM, ±4kV/CM, Data Port : ±2kV	
	IEC61000-4-6 (CS) : 3V (10kHz - 150kHz), 10V (150kHz - 80MHz)	
	IEC61000-4-16 (Common mode conduction) : 30V (Cont), 300V (1s)	
Shell	IP40 protect grade, metal shell	
installation	DIN-Rail or Wall Mounts	
Packing List	Industrial PoE Switch (plus terminal block)	
	User Manual/ Certificate of quality/ Warranty card	
	DIN-Railmounting kit	
Certification	CE mark, commercial, FCC Part 15 Class B, VCCI Class B EN 55022 (CISPR 22), Class B	
MTBF	300,000 Hours	
Dimension	235x120x45mm (L x W x H)	
Weight	0.85kg	
Warranty	1 Year	