LK6006GSM Managed Gigabit Indutry PoE Switch

Product Description:

LK6006GSM Industrial PoE Switch, 4x Gigabit auto-sensing RJ45 ports and 2x Gigabit SFP optical port, is designed for the security of industrial automation and coal mine factory. With SHR function, easy for setting any ports to build a fast healing SHR, whose time is less than 50ms, and provide a safe network environment

LK6010GSM, with the web, providing an abundant & complete management functions, including VLAN based on port, VLAN based on 802.1Q, QOS, IGMP Snooping, RSTP, Broadcast Storm Restraint, Port Aggregation, Port mirroring, Port management, SNMP and NTP etc.

Feature:

● Support Port Aggregation, Port Rate Limitation, Broadcast Storm Restraint.

● 4x Gigabit Auto-sensing RJ45 Ports, 2x Gigabit SFP Optical Ports

● Support FTP/TFTP Upgrade Method, System Logs, File download & upload.

● Compatible with IEEE802.3af/at

● Support multi group

● MAC Address Table: 8K

● Plug and play MR Ring (Self-healing time < 50 ms)

● LED Indicators for optical port, RJ45 port, power supply & warning etc

● Supports both IEEE 802.3af and 802.3at, and every port PoE configuration function

● With high performance management system, including VLAN based on port, VLAN based on 802.1Q, QOS, IGMP Snooping, RSTP, Broadcast Storm Restraint, Port Aggregation, Port mirroring, Port management, SNMP and NTP etc

Specification:

Model	LK6006GSM
Ports	4x gigabit RJ45 ports, 2x gigabit LC optical ports
Layer 2 Switching	
Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w
G.8032 ERPS	<50ms ring protection for industrial high reliable application

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Aggregation	Link Aggregation Control Protocol (LACP) IEEE 802.3ad; Up to 13 groups ;Up to 14 ports per group
VLAN	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) ;Port-based VLAN; 802.1Q tag-based VLAN
IGMP v1/v2 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; Supports 1024 multicast groups (source-specific multicasting is also supported)
Security	
Secure Shell (SSH) Protocol	SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported
Secure Sockets Layer (SSL), HTTPS	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 the number of learned MAC addresses
DHCP Snooping	Prevent unauthorized configuration and use of IP addresses, while providing support for IP Source Guard and ARP detection
IP Source Guard	Prevents datagram with spoofed addresses from being in the network
ARP Inspection	Prevent ARP
Storm control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
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
Quality of Service	
Hardware Priority Queue	Support 8 hardware queues
Scheduling	8 COS queues per port support strict priority and weighted
Classification	Port based; 802.1p(PCP) VLAN priority based;
Rate Limiting	Ingress policer;egress shaping and rate control;per VLAN,per port and flow based
Management (Web/ SSL, Telnet/ SSH, ping, Trivial File Transfer Protocol (TFTP), SNMP, Syslog)	
Web GUI interface	Built-in switch configuration utility for browser-based device configuration (HTTP/ HTTPs). Supports 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 as well
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)

Green Ethernet	
Green and Energy-saving Ethernet (EEE)	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ-45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter.

General	
Jumbo frames	Frame sizes up to 9KB supported on Gigabit interfaces
MAC Table	Up to 8K MAC addresses

Discovery	
Link Layer Discovery Protocol (LLDP)	Used by network devices for advertising their identities, capabilities, and neighbors on a IEEE 802 local area network, principally wired Ethernet.

PoE			
PoE Standard:	EEE802.3af/at	Power:	30W
PoE Ports:	4 ports support PoE	Power Pin Type:	End-span (Mid-span optional)

Minimum Requirements
Web browser: Mozilla Firefox version 2.5 or later, Microsoft Internet Explorer version 6 or later; Category 5 Ethernet network cable; TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in network

Environmental (preliminary)	
Dimensions	165x145x45mm
Working Environment	Operating temperature: -10 to 60 ℃; Storage temperature: -20℃ to70 ℃; Operating humidity: 10% to 90% , relative, non-condensing

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