

**Managed 1G/10G Ethernet Switch LK5000 Series**  
**Managed Gigabit Ethernet Switch — LK5018GSM**

**Product Description:**

LK5018GSM, a Layer 2+ Managed Gigabit Switches support both IPv4 and IPv6 protocols software Layer 3 static routing capability, and provide 16 10/100/1000Mbps Gigabit Ethernet ports, 2 Gigabit SFP slots.

The LK5018GSM is programmed for advanced switch management functions such as **802.1Q VLAN** and **Q-in-Q VLAN**, **Multiple Spanning Tree protocol (MSTP)**, **loop** and **BPDU guard**, **IGMP snooping**, and **MLD snooping**. Also, the **Link Layer Discovery Protocol (LLDP)** is the Layer 2 protocol included to help discover basic information about neighboring devices on the local broadcast domain.



**Feature:**

- ◆ Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMP ,Snooping, DHCP Snooping, LLDP, IP Source Guard, ARP inspection, ACLs etc.
- ◆ Support spanning tree STP(802.1D) and RSTP(802.1W) and MSTP(802.1s).
- ◆ Support enhanced management through WEB, CLI, TELNET, SSH, SNMP.
- ◆ Support cable diagnosis
- ◆ Support dual firmware backup mechanism
- ◆ Support G.8032 quick ring protocol. Self-recovery time <20ms.
- ◆ Support IEEE1588 v2, transparent clock(TC)
- ◆ Support DDM, SFP digital diagnostics monitoring
- ◆ Support IPV4 and IPV6 software based static routing functions
- ◆ Support memory and CPU monitoring

**Hardware Specification:**

Model	LK5018GSM
Copper Ports	16 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
Fiber Ports	2-100/1000BASE-X SFP interfaces, supports 100/1000Mbps dual mode
Console Ports	1 x RS-232-to-RJ45 serial port (115200, 8, N, 1)
Switch Architecture	Store-and-Forward
Switch Fabric	36Gbps/non-blocking
Throughput	23.81Mpps @64 bytes
Address Table	8K entries
Share Data Buffer	4.0 Mb
Jumbo Frame	9600 Bytes
SDRAM	1Gb
Flash Memory	128Mb
Flow Control	IEEE 802.3x pause frame for full-duplex, Back pressure for half-duplex
Reset Button	> 2 sec: Factory default and reset
Power Supply	100~240V AC, 50/60Hz, 4A (max.)
Power Consumption	12V, 45watts/1122 BTU
LED Indicators	<p><b>Power: Green</b> Solid on- power work normal, off- power disconnected</p> <p><b>System: Green</b> Blink-work normally, solid on- soft work abnormal, fast blink- soft upgrade</p> <p>10/100/1000T RJ45 Interfaces (Port 1 to Port 16): <b>1000 LNK/ACT (Green)</b>, <b>10/100 LNK/ACT (yellow)</b></p> <p>Blink- port connected with data transmission; Solid on- port connected without data transmission</p> <p><b>100/1000Mbps SFP Interfaces (Port 17 to Port 18): Green</b></p> <p>Blink- port connected with data transmission; Solid on- port connected without data transmission</p>
EMC	Surge Immunity: IEC61000-4-5 ESD Protection: ESD IEC61000-4-2; EFT IEC61000-4-4
Dimension	440x240x44.5mm
Weight	3.2kg
Working Temperature	-10 °C to 45 °C
Storage Temperature	-20 °C to 70 °C
MTBF	50,000hrs

**Layer 2 functions**

Port configuration	Auto-negotiation Flow Control Port Mirror: TX/RX/BOTH; Many-to-1 monitor CPU Mirror Traffic statistics
Link Aggregation	Static link aggregation LACP (Dynamic Trunk/Static Trunk) Algorithm based on Source/Destination MAC Algorithm based on Source/Destination IP
MAC Table	Aging Time Static MAC address Dynamic MAC address management
VLAN	4094 Active VLANs 4094 VID 802.1Q Tag VLAN Port VLAN Protocol VLAN MAC VLAN Voice VLAN 802.1ad Q-in-Q tunneling Private VLAN (Protected port) GARP/GVRP
ACL	256ACLs L2, L3 e L4 Time-based ACL IP ACL MAC ACL MAC-IP ACL User-Defined ACL ICMPv6
Spanning tree	802.1D Spanning Tree Protocol (STP) 802.1w Rapid Spanning Tree Protocol (RSTP) 802.1s Multiple Spanning Tree Protocol (MSTP) Loop Guard Root Guard TC-BPDU Guard BPDU Guard BPDU Filter
Ring Protection	<20ms G.8032 ERPS Ring Fast Ring
Multicast	256 groups IGMP v1/v2/v3 Snooping, Fast Leave MLD Snooping Multicast VLAN IGMP filter MVR Multicast Routing
QOS	8 mapping IDs to 8 level priority queues CoS port-based CoS 802.1p-based CoS DSCP-based

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	<p>Scheduling algorithms SP, WRR, SP+WRR  Storm Control (Broadcast, Multicast, Unknown Unicast)  Bandwidth control per port  SWRR, DWRR for Scheduling  Flow Redirect  Precedence  TOS  Rate Limiting (Ingress/Egress)  Stri Priority</p>
Security Features	<p>Port Security  MAC address filter  ARP Association (Manual, ARP scanning, DHCP snooping)  ARP Protection  AAA  DAI  DoS (Denial of Service)  Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, Protocol Type;  802.1x Authentication (port-based e MAC-based)  TACACS/TACACS+ Authentication  RADIUS Authentication  DHCP Filter  Guest VLAN  SSLv2/SSLv3/TLSv1  SSHv1/SSHv2  Restriction of WEB access based on: IP Address, And. MAC and Port;  Port Isolation  Loopback detection</p>
Management	<p>SNMP v1/v2c/v3 with Full Private MIBs  RMON 4 groups  WEB (HTTP/HTTPS)  CLI (Telnet, Console, SSHv1/v2)  Firmware upgrade via console/web/TFTP  Configuration Backup/Reload  Dual Firmware  LLDP  Configuration Export/Import  CDP Aware  OAM (IEEE802.3ah)  CFM (IEEE802.1ag)  sFlow  Telnet client</p>
Synchronization, IEEE1588	<p>Support IEEE1588v2 transparent clock</p>
Other Features	<p>DNS Client  DHCP Relay  DHCP Client  DHCP Snooping  DHCP Option 66  DHCP Option 67  DHCP Option 82  NTP/SNTP Client  UPNP  UDLD</p>

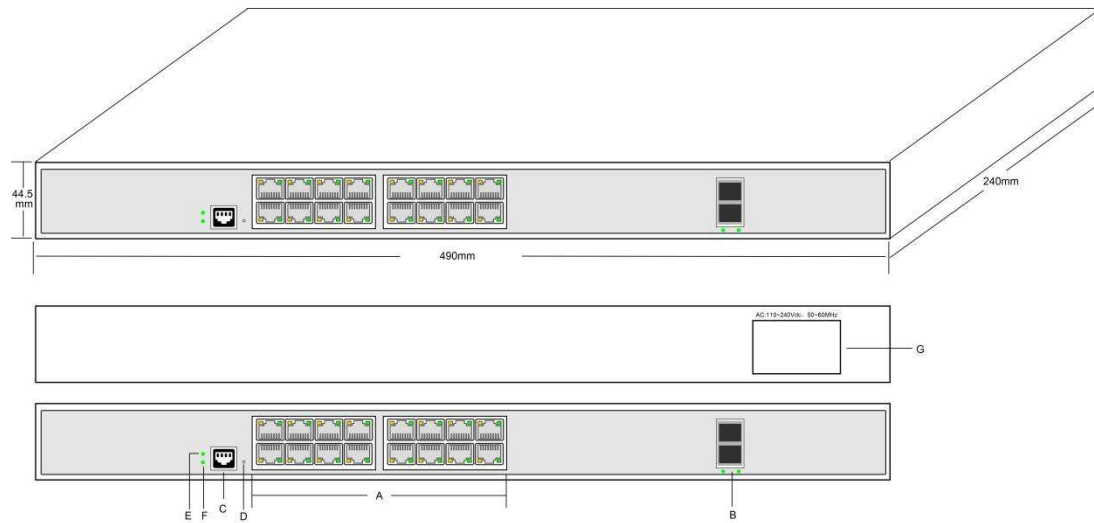
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Maintenance	Cable Diagnostics Ping SFP DDM (Digital Diagnostics Monitoring) Thermal protection System log (Local and Remote) Memory and CPU Monitoring Tracert / tracert 6

**Layer 3 functions**

Static Routing	IPv4 Unicast: Static Routing(Software Base) IPv6 Unicast: Static Routing(Software Base)
IPV6	IPv6 neighbor discovery (ND) Path maximum transmission unit (MTU) discovery Internet Control Message Protocol (ICMP) version 6 TCPv6/UDPv6 Ping6 Telnet(v6) Http/Https Interface IPV6 ACL IPV6

**Dimension:**



- A: 16x 10/100/1000Mbps RJ45 Ports
- B: 2x Gigabit SFP Ports
- C: Console Port
- D: Reset Key
- E: PWR LED Indicator
- F: SYS Status Indicator
- G: AC Power Input: 100~240V, 50~60Hz

**Order Information:**

Product Model: LK5018GSM

Product Description: L2+ Managed Switch, 16-Port 10/100/1000BASE-T +2-Port 100/1000X SFP, 1x console port

Order note: SFP module is not included, need to order it separately

Package lists	L2+ Managed Switch, 16-Port 10/100/1000BASE-T +2-Port 100/1000X SFP, 1x console port (LK5018GSM)
	Power Cable
	Mounting Kits
	Warranty Card
	User Guide