

**Managed Gigabit PoE Switch — LK7010GCM**

**Product Description:**

LINKOH LK7010GCM is a Layer 2+ managed Gigabit PoE Switch that features intelligent PoE functions to improve the availability of critical business applications. It provides **IPv6/IPv4 management** and built-in L2+ Gigabit Switching engine along with 8\*10/100/1000BASE-T ports featuring **30-watt 802.3at PoE+** and **2 additional Gigabit copper ports** and **2 Gigabit RJ45 Ports**. With a total power budget up to 150W for different kinds of PoE applications, can provides quick, safe and cost-effective Power over Ethernet network solutions to security IP surveillance for small businesses and enterprises.

The LK7010GCM 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, POE+ management, 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 and SFP DDM.
- ◆ Support PoE management, like PoE schedule, PoE PD-alive.
- ◆ 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 static routing functions
- ◆ Support memory and CPU monitoring
- ◆ 4KV surge protection, 6KV contact/8KV air protection

**Hardware Specification:**

Model	LK7010GCM
Copper Ports	10-10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
PoE Ports	1~8-802.3af/802.3at PoE Injector Ports
Console Ports	1 x RS-232-to-RJ45 serial port (115200, 8, N, 1)
Switch Architecture	Store-and-Forward
Switch Fabric	20 Gbps/non-blocking
Throughput	14.88 Mpps @64 bytes
Address Table	8K entries
Share Data Buffer	4 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	Max.150 watts/1122 BTU
PoE Standards	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE
PoE Power Supply Type	Per Port 52V DC, 300mA. Max. 15.4 watts (IEEE 802.3af) Per Port 52V DC, 600mA. Max. 30 watts (IEEE 802.3at)
LED Indicators	<b>Power: Green</b> Solid on- power work normal, off- power disconnected <b>System: Green</b> Blink-work normally, solid on- soft work abnormal, fast Blink –soft upgrade <b>PoE: Yellow</b> Solid on-PoE work normally, Off-PoE doesn't work, Blink- PoE overload  10/100/1000T RJ45 Interfaces (Port 1 to Port10): 1000 LNK/ACT (Green) Blink - port connected with data transmission; Solid on- port connected without data transmission
EMC	Surge Immunity: 4KV Per: IEC61000-4-5 ESD Protection: ESD Level 4 Per: IEC61000-4-2 EFT Level 4 Per: IEC61000-4-4
Dimension	280x213x44.5mm
Weight	2 kg
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 LINKOH Ring, < 20ms
Multicast	256 groups IGMP v1/v2/v3 Snooping, Fast Leave MLD Snooping Multicast VLAN IGMP filter

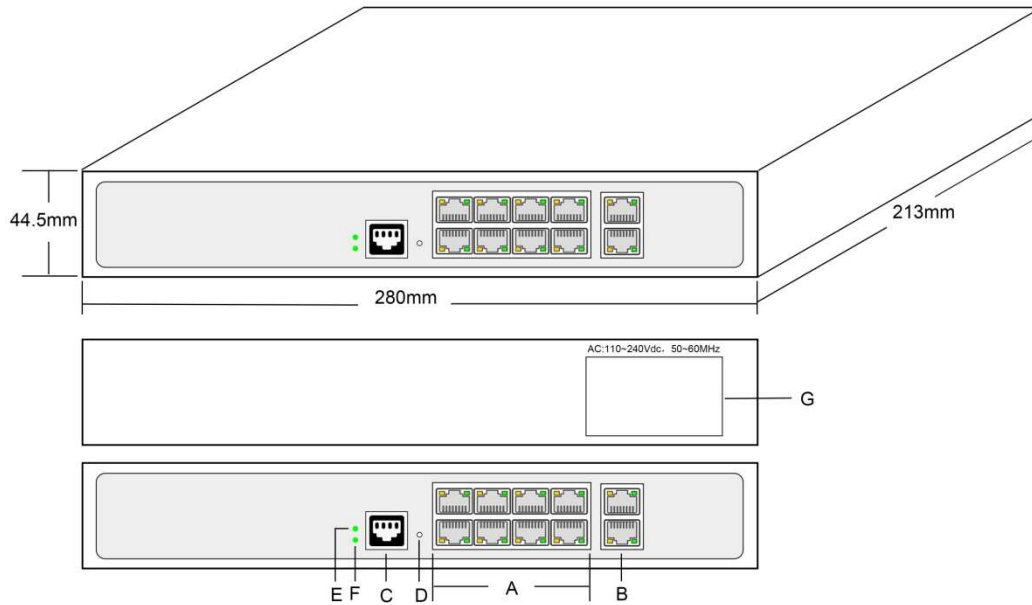
	MVR Multicast Routing
QOS	8 mapping IDs to 8 level priority queues CoS port-based CoS 802.1p-based CoS DSCP-based Scheduling algorithms SP, WRR, SP+WRR Storm Control (Broadcast, Multicast, Unknown Unicast) Bandwidth control per port SWRR, DWRR for Scheduling Flow Redirect Precedence TOS Rate Limiting ( Ingress/Egress ) Stri Priority
Security Features	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
Management	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
Synchronization, IEEE1588	Support IEEE1588v2 transparent clock
Other Features	DNS Client DHCP Relay DHCP Client DHCP Snooping

	<p>DHCP Option 66 DHCP Option 67 DHCP Option 82 NTP/SNTP Client UPNP UDLD</p>
PoE management	<p>Total PoE power budget control Per port PoE function enable/disable PoE admin-mode control PoE port power feeding priority Per PoE port power limitation PD classification detection PD alive check PoE schedule Soft-reboot PoE Non-stop</p>
Maintenance	<p>Cable Diagnostics Ping SFP DDM (Digital Diagnostics Monitoring) Thermal protection System log (Local and Remote) Memory and CPU Monitoring Tracert/ Tracert 6</p>

**Layer 3 functions**

Static Routing	<p>IPv4 Unicast: Static Routing (Software Base) IPv6 Unicast: Static Routing (Software Base)</p>
IPV6	<p>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</p>

**Dimension:**



- A: 8x 10/100/1000Mbps PoE RJ45 Ports
- B: 2x 10/100/1000Mbps RJ45 Uplink Ports
- C: Console Port
- D: Reset Key
- E: Power LED Indicator
- F: System Status LED Indicator
- G: AC Power Input: 100~240V, 50~60Hz

**Order Information:**

Product Model: LK7010GCM

Product Description: 10-Port 10/100/1000BASE-T 802.3at PoE, 1x console port. 1~8 RJ45 ports support PoE power supply function , IEEE802.3af/at standard. Max Power per PoE Port: 30W ; Switch's total power: 150W.

- Order note: 1. Default PoE power supply type is end-span, mid-span optional
2. SFP module is not included, need to order it separately

Package lists	8-Port 10/100/1000BASE-T 802.3at PoE +2-Port 100/1000X RJ45 port Managed PoE Switch (LK7010GCM)
	Power Cable
	Mounting Kits
	Warranty Card
	User Guide