

**4\*10GE+4\*10G SFP+ L3 Managed Switch**  
**10G08-0404GSM**



## Product Overview

10G08-0404GSM is L3 managed switches, and provide 4\*100M/1000M/2.5G/5G/10Gbps adaptive RJ45 port and 4\*1000M/2.5G/10Gbps SFP+ fiber module slot, Each RJ45 port supports MDI/MDIX auto-flip and wire-speed forwarding. Provide complete security policy, perfect QoS policy and rich VLAN functions, easy to manage and maintain, to meet the enterprise, community, hotel, office network

## Product Features

- RJ45 supports port auto-flip (Auto MDI/MDIX);
- Monitor the working state of the panel lamp, assist in fault analysis;
- Support IEEE802.3x full-duplex flow control and Backpressure half-duplex flow control;
- Control of three-layer routing protocol, adapt to multiple services, efficient and guaranteed information transmission;
- Compatible with 100M/1000M/2.5G/5G/10Gbps transmission rate;
- Use adaptive 10G/2.5G/1G standard optical module, support SR/LR/LRM/ER/ZR and other models;
- IP dynamic routing protocol supports RIP, OSPFv2, IPv4/IPv6 static routing;
- Support static aggregation and dynamic aggregation (LACP) mode, effectively increase link bandwidth, improve link reliability, and realize load balancing and link backup;
- Support WEB management, more simple and efficient, easy to install and debug engineering and maintenance personnel;
- Support HTTP/TFTP/FTP file upload and download management.

and campus network access requirements.

## 10G08-0404GSM L3 Managed Switch

### Product Specifications

#### Hardware Specifications

<b>Model</b>	10G08-0404GSM
<b>Interface</b>	4*100M/1000M/2.5G/5G/10Gbps adaptive RJ45 Ports 4*1000M/2.5G/10Gbp SFP+ Slots
<b>Standard</b>	IEEE802.3,IEEE802.3u,IEEE802.3ae,IEEE802.1ab,IEEE802.3z,IEEE802.3x,IEEE802.1q, IEEE802.1p,IEEE802.1x,IEEE802.1s,IEEE802.1d,IEEE802.1w,IEEE802.3ad
<b>Network Media(Cable)</b>	100BASE-TX:UTP category 5, 5e cable (≤100m) 1000BASE-T:UTP category 5e, 6 cable (≤100m) 2.5GBASE-T:UTP category 6, 6A cable (≤100m) 5GBASE-T:UTP category 6, 6A cable (≤100m) 10GBASE-T:UTP category 6A, 7 cable (≤100m) 1000BASE-X: MMF, SMF modules 10GBASE-X: MMF, SMF modules 10GBASE-SR:OM1/OM2/OM3 or above MMF (2m~300m) 10GBASE-LR:IEC's B1.1 and B1.3 SMF (2m~10000m)
<b>LED Indicator</b>	PWR (Green), LNK/ACT (Green/Orange), SYS (Green)
<b>MAC Address Table</b>	16K,Auto-learning, Auto-updating
<b>Jumbo Frame</b>	12KByte
<b>Packet Buffer</b>	12Mbit
<b>Transfer Mode</b>	Store-and-Forward
<b>Switching Capacity</b>	160Gbps
<b>Packet Forward Speed</b>	119.04Mpps
<b>Input Power Supply</b>	DC: 12V/3A
<b>Total Power Supply</b>	36W
<b>Dimensions(L*W*H)</b>	220*130*37.8mm
<b>Number of Fans</b>	1
<b>Fan Speed</b>	4500
<b>Operating Temperature</b>	0°C ~ 40°C
<b>Storage Temperature</b>	-40°C ~ 70°C
<b>Operating Humidity</b>	10% ~ 90% non-condensing
<b>Storage Humidity</b>	5% ~ 90% non-condensing
<b>Lightning Protection Grade</b>	Differential mode ±1KV, Common mode ±6KV
<b>Electrostatic Standard</b>	Contact ±6KV, Air ±8KV
<b>MTBF</b>	>50000 hours

## Software Specification

<b>L3 Features</b>	<b>DHCP Server</b>	DHCP Server
		DHCPv6 Server
	<b>Route</b>	Static Route(IPV4/IPV6)
		Route Aggregation
	<b>RIP</b>	RIP v1/v2
	<b>OSPF</b>	OSPF v2
<b>L2 Features</b>	<b>BGP</b>	BGP4
	<b>MAC Address Table</b>	MAC Aging Time
		MAC Filter
		MAC Notification
	<b>Basic Management</b>	Console/Telnet/SSH
		Http/Https,SSL/TLS
		HTTP/FTP/TFTP
		Syslog
		SNMP(v1/v2c/v3),SNMP Trap
		SNTP/NTP
		CPU protect
		Software/Hardware watchdog
		Firmware Upgrade/Backup
		Ping/Traceroute
	<b>Port Config</b>	Bandwidth Control
		Flow Control
		EEE
		MTU
		CFM(802.1ag)
		EFM OAM(802.3ah)
		DDM
		Storm Control
		Port Isolation
		Port Security
		Virtual Cable Test
		ULDP/Cisco UDLD
	<b>Discovery</b>	LLDP(802.1ab)
		LLDP-MED
	<b>Link Aggregation</b>	Static
		LACP(802.3ad)
		Load Balance(src-mac/dst-mac/src-ip/dst-ip)
		Max groups and ports per group
	<b>VLAN</b>	VLAN(802.1Q 4K)
		Access/Trunk/Hybrid
		Private VLAN
		VLAN Filter
		MAC-based VLAN
		Protocol-based VLAN
		IP Subnet-based VLAN
		Voice VLAN
		GVRP/GMRP
		QinQ/Selective-QinQ/Flexible QinQ
		VLAN Translation/N:1 VLAN Translation
		Guest VLAN
	<b>Network Loop Detection</b>	Loopback Detection
		ERPS
	<b>Spanning Tree</b>	STP/RSTP/MSTP

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		MSTP Support 64 instance
		BPDU Guard/Root Guard/BPDU Tunnel

<b>L2 Features</b>	<b>ARP</b>	Static ARP
		ARP Scanning Prevention
		ARP Spoofing Prevention
		ARP Guard
		Gratuitous ARP
		Dynamic ARP Inspection
		ARP Quantity Control
<b>IPv4 Related Function</b>	<b>ICMP</b>	Anti ICMP Attack
		ICMP Rate Limit
		ICMP Unreachable Drop
	<b>Control Multicast</b>	DCSCM
	<b>Multicast VALN</b>	Multicast VALN
	<b>IGMP</b>	IGMP SNOOPING V1/V2/V3
		Fast Leave
		IGMP Proxy
	<b>DHCP</b>	DHCP Client/BOOTP
		DHCP Relay
		DHCP Snooping
		DHCP Option 82/43/60/61/67
<b>IPv6 Related Function</b>	<b>IPv6 Basic</b>	IPv6 ND Snooping
	<b>DHCPv6</b>	DHCPv6 Relay
		DHCPv6 Snooping
		IPv6 SAVI
		Security RA
	<b>IPv6 Unicast Routing</b>	Static Route
	<b>IPv6 Multicast Routing</b>	MLD v1/V2 Snooping
	<b>IPv6 Features</b>	SNMP over IPv6 Support
		HTTP over IPv6 Support
		SSH over IPv6 Support
		DNS over IPv6 Support
		IPv6 ping/traceroute Support
		IPv6 Telnet Support
		IPv6 Radius+ Support
		IPv6 Tacacs+ Support
		IPv6 SNTP/NTP Support
		IPv6 FTP/TFTP Support
		IPv6 IPsec Support
		IPv6 ACL
<b>QoS(Quality Of Service)</b>	<b>Basic</b>	Trust COS/DSCP
		Trust Port
	<b>Scheduling</b>	SP
		WRR
		WDRR
	<b>PolicyMap Stream</b>	Based on VLAN
		Based on COS/DSCP
		Aggregate PolicyMap
		Ingress PolicyMap
	<b>Policing</b>	CAR Stream Shaping(leak algorithm)
		Ingress Policing
	<b>Rewrite</b>	COS/802.1p Priority
		IP Precedence
		IPv4 DSCP/IPv6 DSCP
		drop-precedence
		internal-priority

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		Ingress/Egress Rewrite
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<b>QoS(Quality Of Service)</b>	<b>Queuing</b>	DSCP to DSCP mapping
		DSCP to DP mapping
		DSCP to Queue mapping
		COS to DP mapping
		COS to Queue mapping
<b>ACL</b>	<b>IP-ACL</b>	SIP/DIP
		IP Protocol
		IP Priority(DSCP,TOS, Precedence)
		TCP,UDP src,dst Port
	<b>MAC-ACL</b>	SRC/DST MAC
		VLAN
		COS
		Tag/Untag
	<b>IP-MAC ACL</b>	MAC-ACL and IP-ACL
	<b>User-defined ACL</b>	Base on user defined profile
	<b>ACL Features</b>	Based on time period ACL
		ACL on VLAN
		Based on ACL Stream
<b>Security</b>	<b>802.1x</b>	Port Based Authentication
		Support EAPoR
		MAC based Authentication
		Guest VLAN
	<b>MAB</b>	Based on Port Authentication
		Based on MAC Authentication
	<b>MAC Address Count Limit</b>	Based on Port
		Based on VLAN
	<b>IP Address Count Limit</b>	Based on Port
		Based on VLAN
	<b>Access Management</b>	Based on source mac and IP address
	<b>Deny DoS Attack</b>	TCP Flag
		TCP Fragment
		IP Segment
		ICMP
	<b>TACACS+</b>	Standard Support
	<b>Radius</b>	Standard Support
		Client, Support MD5
	<b>SSL</b>	Openssl 1.1.0
<b>Redundancy Related Function</b>	<b>MRPP</b>	Compatiable ERRP
	<b>ULPP</b>	Uplink Protection Protocol
		Smart Link/Monitor Link
	<b>ULSM</b>	Uplink State Monitor
<b>Flow Monitor Function</b>	<b>Mirror</b>	Support one to one, multi to one
		Port based mirror, support ingress, egress, and both
		CPU based mirror
		Flow based mirror
		RSPAN

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