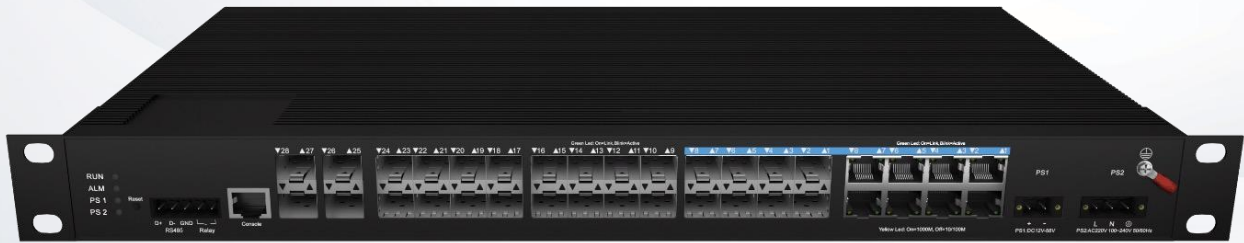# TH-8G8C2000M2

Industrial Rack-mount Managed Ethernet Switch

8 x 1000M Combo(RJ45/SFP), 16 x 1G SFP, 4 x 1G/2.5G SFP

Overview

TH-8G8C2000M2 is Gigabit Management Industrial Rack-mount Ethernet Switch, with 8-port Gigabit Combo (RJ45/SFP), 16-port 1G SFP, and 4-port 1G/2.5G SFP. The switch is fan-less cooling circuit design, wide range of working environment temperature, high protection level and other technologies, providing high and low temperature -40℃ ~ +75℃, lightning protection and other excellent industrial quality, and integrated switching, security and other rich protocols. Supporting public Ethernet multi-ring protection technology (ERPS Recovery Time ≤15ms), greatly improving the flexibility of networking, and enhance the reliability and security of industrial networks.

Features

● Redundant power DC12-58V and AC100~240V input

● Support Layer 2 management function: VLAN/VLAN Classification/QinQ/STP, RSTP, MSTP/Port Mirroring/ DHCP Multicast/ACL/IGMP/QoS/LLDP/802.1X/Dying Gasp/SFP DDM/IPV6/Web/SNMP/Telnet/TFTP management

● Support 6KV surge protection and ESD Air-15kV, Contact-8kV Protection

● Operate temperature -40℃ ~ +75℃

● Shell IP40 protection level, fan-less design

Specifications

Provider Mode Ports	
Fixed Port	8*Gigabit Combo (RJ45/SFP), 16*1G SFP, and 4*1G/2.5G SFP
Management Port	Support Console
Power Interface	Phoenix terminal, redundant dual power supply
LED Indicators	PWR, Link/ACT LED
Cable Type & Transmission Distance	
Twisted-pair	0-100m (CAT5e, CAT6)
Monomode Optical Fiber	20/40/60/80/100KM
Multimode Optical Fiber	550m
Electrical Specifications	
Input Voltage	Dual Power DC12-58V, AC100~240V 50/60HZ input
Total Power Consumption	<36W
Layer 2 Switching	
Switching Capacity	160G
Packet Forwarding Rate	95.23Mpps
MAC Address Table	16K
Buffer	12M
Forwarding Delay	<10us
MDX/MIDX	Support
Flow Control	Support
Jumbo Frame	Support 10Kbytes
Port Aggregation	Support GE port, 2.5GE Support static and dynamic aggregation
Port Features	Support IEEE802.3x flow control, Port traffic statistics, port isolation Support network storm suppression based on port bandwidth percentage
VLAN	Support 4K
VLAN Classification	Mac Based VLAN IP Based VLAN Protocol Based VLAN

QinQ	Basic QinQ (Port-based QinQ)
	Flexible Q in Q(VLAN-based QinQ)
	QinQ(Flow-based QinQ)
Port Mirroring	Many to one (Port Mirroring)
Spanning Tree	Support STP, RSTP, MSTP
DHCP	DHCP Client
	DHCP Snooping
Multicast	IGMP snooping
ACL	Support ACL 500
	Support IP standard ACL
	Support MAC expand ACL
	Support IP expand ACL
QoS	QoS Class, Remarking
	Support SP, WRR queue scheduling
	Ingress Port-based Rate-limit
	Egress Port-based Rate-limit
	Policy-based QoS
Management and Maintenance	Support LLDP
	Support user management and login authentication
	Support SNMPV1/V2C/V3
	Support web management, HTTP1.1, HTTPS
	Support Syslog and alarm grading
	Support RMON (Remote Monitoring) alarm, event and history record
	Support NTP
	Support temperature monitoring
	Support Ping, Tracert
	Support optical transceiver DDM function
	Support TFTP Client
	Support Telnet Server
	Support SSH Server
	Support IPv6 Management
	Support TFTP, WEB upgrading
Security	Support Dot1x, port authentication, MAC authentication and RADIUS service
	Support port-security
	Support ip source guard, IP/Port/MAC binding
	Support arp-check and ARP packet filtering for illegal users
	Support port isolation

Environment

Operating Temperature	-40℃~+70℃
Storage Temperature	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Thermal Methods	Fan-less design, natural heat dissipation
MTBF	100,000 hours

Mechanical Dimensions

Product Size	440*245*44mm
Installation Method	Rack-mount
Net Weight	3.6KGs
Packaging Info	5PCS/CTN, Carton Dim. 51*58.5*36.8cm, 24.8KGS/CTN

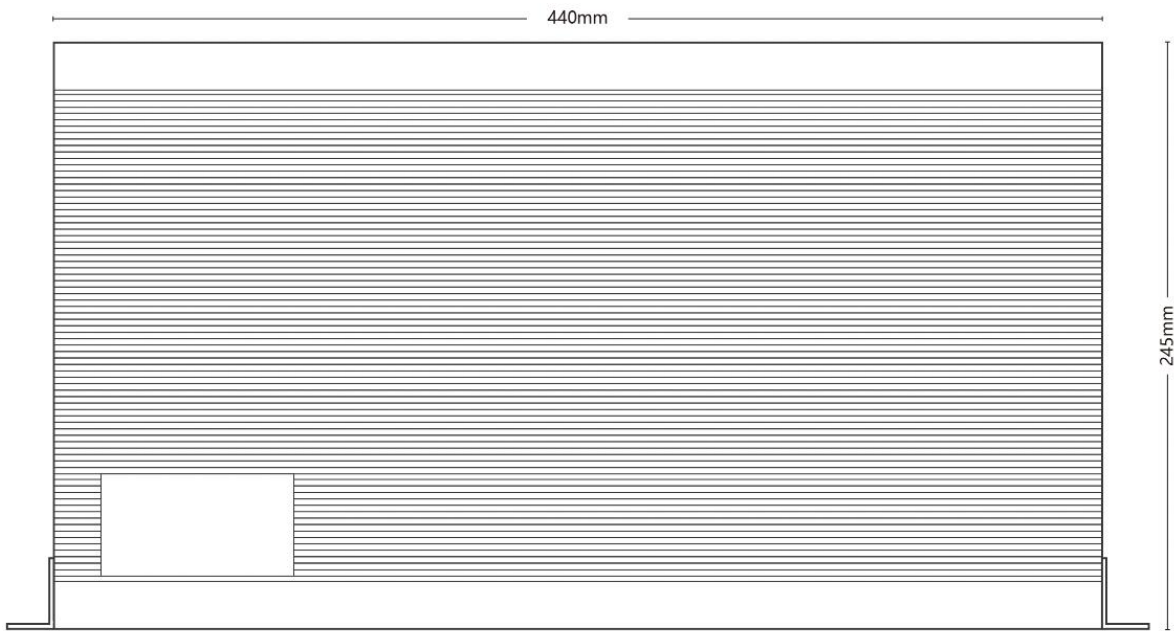**EMC & Ingress Protection**

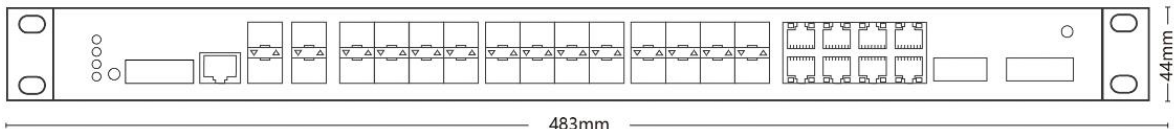|	
IP Level	IP40
Surge Protection of Power	IEC 61000-4-5 Level X (8KV/8KV) (8/20us)
Surge Protection of Ethernet Port	IEC 61000-4-5 Level 3 (4KV/2KV) (10/700us)
RS	IEC 61000-4-3 Level 3 (10V/m)
EFI	IEC 61000-4-4 Level 3 (1V/2V)
CS	IEC 61000-4-6 Level 3 (10V/m)
PFMF	IEC 61000-4-8 Level4 (30A/m)
DIP	IEC 61000-4-11 Level3 (10V)
ESD	IEC 61000-4-2 Level 4 (8K/15K)
Free Fall	0.5m

Certificates

Certificates	CE/FCC/RoHS/UKCA

Dimension

440mm

245mm

Top view

483mm

44mm

Front view

Ordering Information

P/N	Description
TH-8G8C2000M2	Industrial Managed Rack-mount Ethernet Switch 8x1000M Combo(RJ45/SFP), 16x1G SFP, 4x1G/2.5G SFP