

Model Name

STC-28GPM

ST: Saga Telecom

C: Commercial grade

2: 2 optical ports

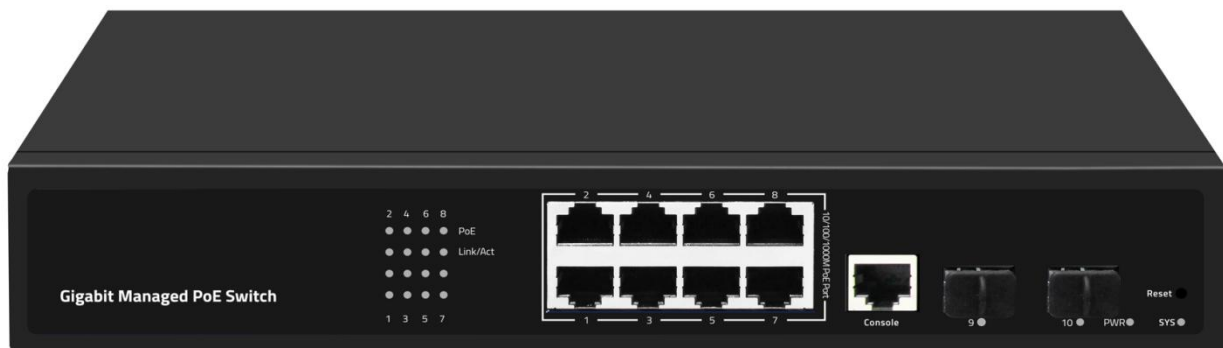
8: 8 Ethernet ports

G: Gigabit based

P: Support POE

M: Managed

It is advised to read specific product description for more information.



Introduction

STC-28GPM has 8*10/100/1000 adaptive electrical ports, 2*1G SFP ports and 1 console port enjoying

- black iron shell design, internal AC-DC power supply, light weight
 - high-quality Network and POE Chip
 - seamless connection for 10/100/1000M Ethernet
 - with LED indicators to display the connection and operation of equipment
 - redundant ring network, VLAN, QoS, speed control, fault alarm and firmware online upgrade
 - easy to manage and maintain
 - 802.3af and 802.3at standard for each POE port
 - intelligent detection of powered devices
- (1) power the devices that comply with the IEEE802.3af or IEEE802.3at standards
 - (2) transmit only data to non-POE devices
1. The adaptive Ethernet ports automatically adapt to the full duplex or half duplex mode
 2. The MAC address self-learning function ensures error free data transmission
 3. The store and forward mode prevents the damaged packets from flooding in the network
 4. The flow control function can prevent the impact of a large amount of instantaneous data on the network
 5. The port supports MDI/ MDIX auto flip function, non-blocking line speed transmission of all ports

STC-28GPM can be widely used industrial parks, buildings, factories and mines, government agencies, community broadband, etc.

Key Features

- 8 x 10/100/1000Mbps auto-sensing Ports, 2x 1000Mbps SFP Ports, 1 x Console Port
- Support IEEE802.3/IEEE802.3i/IEEE802.3u/IEEE802.3ab/IEEE802.3z, store-and-forward
- Compatible with IEEE802.3at (30W) and IEEE802.3af (15.4w)
- Flow control mode: full-duplex adopts IEEE 802.3x standard, half-duplex adopts Back pressure standard
- Support port auto flip (Auto MDI/MDIX)
- Panel indicator monitoring the status and help failure analysis
- Fan-less design, Natural Cooling, Compatible with 1U Rack Mount
- Support 802.1x port authentication, support AAA authentication, support TACACS+ authentication
- Support WEB, TELNET, CLI, SSH, SNMP, RMON management
- Support POE Power Management, POE watch dog
- Surge Protection: General 6KV, Differential 2KV(level B), ESD 8KV air, 6KV contact(level B)

Specification

Product Name	10 port 10/100/1000Mbps Managed Ethernet POE Switch
Port	8x10/100/1000M POE UTP RJ45(Support MDI/MDIX, auto-sensing) 2*1000Mbps SFP Port 1*RJ45 Console Port
Switching Capacity	20Gbps
Throughput	14.88Mpps
DDR SDRAM	128MByte
Flash Memory	16MByte
Packet Buffer Memory	4Mbit
MAC Address	8K
Jumbo frame	10Kbytes
VLAN	4096
Transfer Mode	Store and forward
MTBF	100000 hours
Network protocol	IEEE 802.3: Ethernet MAC Protocol IEEE 802.3i: 10BASE-T Ethernet IEEE 802.3u: 100BASE-TX Fast Ethernet IEEE 802.3ab: 1000BASE-T Gigabit Ethernet IEEE 802.3z: 1000BASE-X Gigabit Ethernet (optical fiber) IEEE 802.3ad: Standard method for performing link aggregation IEEE 802.3x: Flow control IEEE 802.1ab: LLDP/LLDP-MED (Link Layer Discovery Protocol) IEEE 802.1p: LAN Layer QoS/CoS Protocol Traffic Prioritization (Multicast filtering function) IEEE 802.1q: VLAN Bridge Operation IEEE 802.1x: Client/Server Access Control and Authentication Protocol IEEE 802.1d: STP IEEE 802.1s: MSTP IEEE 802.1w: RSTP

Industry Standard	EMI: FCC Part 15, CISPR (EN55032) class A EMS: EN61000-4-2 (ESD) EN61000-4-5(Surge)
POE protocol	IEEE802.3af(15.4 W) IEEE802.3at (30 W)
POE Wiring	1/2(+),3/6(-)
POE Budget	120W
Network Medium	10Base-T: Cat3,4,5 or above UTP(≤100m) 100Base-TX: Cat5 or above UTP(≤100m) 1000Base-TX: Cat5 or above UTP(≤100m)
Optical Media	Multi mode fiber : 50/125, 62.5/125, 100/140μm Single mode fiber: 8/125, 8.7/125, 9/125, 10/125μm
Security Certificate	CE/FCC/RoHS
Working Environment	Working Temperature: -10~50°C Storage Temperature: -40~70°C Working Humidity: 10%~90%, non-condensing Storage Humidity: 5%~95%, non-condensing
Power	Power Input Voltage: AC100-240V Internal Power Supply: 52V2.3A
LED Indicators	PWR On: Powered On Off: Powered Off SYS On: System On Flashing: System Start-up Off: System Off POE On: POE on Off: POE off Link/ACT On: Link Connection Normal Flashing: Data Transmitting Off: Link Connection Blocked
Reset	Short press restart, long press 5 seconds to restore factory settings

Management Features

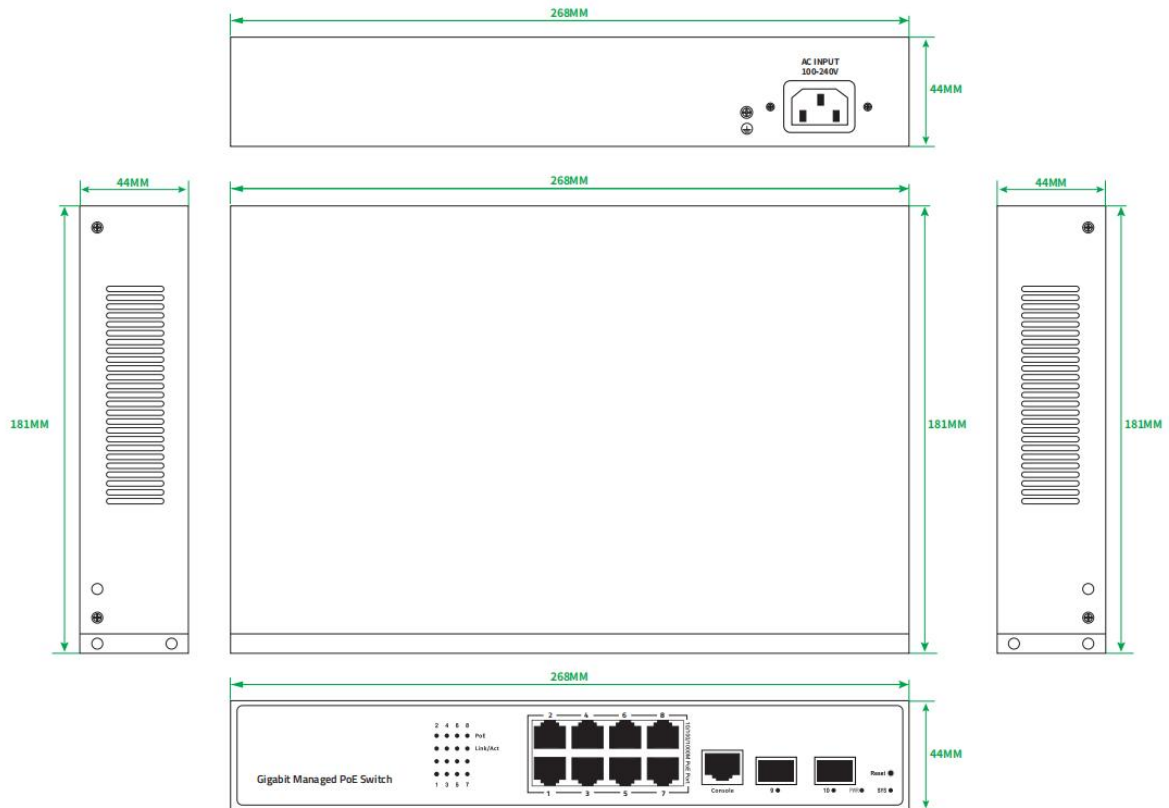
L3 Function	
IPv4	IPv4 VLAN Interface IPv4 Static Routes ARP
IPv6	IPv6 VLAN Interface IPv6 Static Routes IPv6 ND
L2 Function	
Port	Port Switch Port Description Port Speed Port Duplex Port Flow Control Jumbo, Up to 10K EEE Fiber Module(DDM)
Link Aggregation	Supports load balance policy; Base on MAC and IP-MAC Static and Dynamic Group Supports LACP Up to 8 groups
Storm Control	Broadcast Unknown Multicast Unknown Unicast
Port Mirroring	One to one monitor Many to one monitor Ingress/Egress/Both Up to 4 session groups
Port Security	MAC Address Constraints Port Security MAC Address Protect/Restrict/Shutdown
Port Isolation	
Port Rate-limit	
Loopback Detection	
VLAN	Access/Trunk/Hybrid VLAN Tunnel (Q-in-Q Tunnel) Configurable VID from 1 - 4094; Max. 256 static VLAN groups Voice VLAN MAC VLAN Surveillance VLAN Protocol VLAN GVRP
MAC Address	Dynamic Address Static Address Filtering Address

Spanning Tree Protocol	STP/RSTP/MSTP BPDU Filter BPDU Guard Edge Port
LLDP	LLDP LLDP MED
Multicast	IGMP Snooping IGMP V1/V2/V3 Router Port Static IGMP group address IGMP groups filtering Querier MLD Snooping MVR
QoS	Traffic classification based, Strict priority and WRR Port Priority 802.1P Priority IP TOS Priority IP DSCP Priority Supports up to 8 queues per port Priority Remarking
POE	
POE Configuration	POE Temperature POE Type/Level/Power/Voltage/Current POE Switch POE Watchdog POE power AF/AT adaptation
POE Schedule	
POE Port Timer Reboot	
Services	
DHCP	DHCP Server IP Pool Static Binding DHCP Relay
Access Protocol	HTTP HTTPS Telnet SSHv2 Manager ACL Session Timeout Password Retry Count Silent Time

Security	
AAA	RADIUS TACACS+ 802.1X Base on port/MAC/local/WEB
DHCP Snooping	Global/VLAN Option 82 Circuit ID
IP Source Guard	
Dynamic ARP Inspection	
DoS	
ACL	MAC ACL IPv4 ACL IPv6 ACL
Diagnostics	
Syslog	Logging Message Remote Server
Ping	
Traceroute	
Copper Test	
UDLD	
Management	
Manager Access	Console HTTP/HTTPS Telnet SSH SNMP
Manager IP	Static Address DHCP Client Supports IPv4 and IPv6 address Manager VLAN DNS
Time Synchronization	SNTP Manual Time
SNMP	V1/V2C/V3 Community V3 User Group Trap Host
SNMP MIB	RFC 1213 MIB-II RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 2819 RMON MIB (Groups 1, 2, 3 and 9) RFC 2863 Interface MIB LLDP Private MIB

RMON	Statistics History Event Alarm
User	
Firmware	Firmware Upgarde
Configuration	Upload and download
Save	
Restart	
Factory Defaults	
Standards Compliance	IEEE 802.3x flow control and back pressure IEEE 802.3ad port trunk with LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1p Class of Service IEEE 802.1Q VLAN tagging IEEE 802.1x Port Authentication Network Control IEEE 802.1ab LLDP IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP v1 RFC 2236 IGMP v2 RFC 3376 IGMP v3 RFC 2710 MLD v1 FRC 3810 MLD v2

Dimension



Packing list

- 1pc switch
- 1pc power cord
- 1pc console cable
- 1pc user manual
- 1pair brackets

Shipping box information(**Below information is approximately accurate**)

Product size: 268*181*44mm

Inner box size: 312*262*84mm

Product weight: 1.08Kg

Packing weight: 1.62Kg

Master box size: 540*435*332mm

Packing quantity: 10Pcs

Packing weight: 17.2Kg

Product Picture



FAQ

● Leadtime

1. Production time is usually 5~7 working days for standard(non-customized) models (no more than 50pcs).
2. Shipping time is usually 4~7 days by air
3. In total, it takes 10~15 days for a client to receive the order.

● Shipment

1. We will send the goods by air(DHL, UPS or FEDEX) or by sea(for bulk order)
2. It is fine to ship purchased items via customer's shipping account or forwarder.

● MOQ

1. 1 Pc/Pair(It is NOT free, Saga Telecom do NOT do FREE SAMPLES)
2. It is fine to have sample testing before bulk order, but 1 Pc/Pair is ONLY about sample testing.
3. When testing proves fine, MOQ is 20pcs(discussion is required if it is about smaller quantity).

● Warranty

1. 1 year for commercial models(STC series) and 3 years for industrial models(STI series)
2. Please kindly refer to the "Warranty Policy" for more information.
3. Technical assistance is always available

● Payment

1. T/T transfer and PayPal, FULL AMOUNT BEFORE SHIPMENT.
2. It is fine to pay 50% first and another 50% before shipment for bulk order.
3. It is fine to be paid via customer's forwarder(this is usually about RMB payment).

● Transaction cost

1. It is standard charge 25usd for EACH T/T transfer whatever the invoice value is.
2. It is 5usd for every 100usd to PayPal a/c, this ratio is standard charge by PayPal

● RMA

1. Please contact us ASAP once there is any problem(package or usage)with the supplied products.
2. For every 100pcs, there will be 2 extra free units(2% RMA) against immediate warranty coverage.
3. This rule stands for all Saga Telecom models and even there is not an after-sales issue.

(1) If it is about missing/faulty parts in the packing box.

Please simply use the extra units for the replacement and let us know this problem(we will improve).

(2) If it is about usage problem.

Saga Telecom will provide technical support and send new units when necessary.

● OEM

1. Supported, but discussion is required if it is about complex requirements.
2. Below are usual OEM services available.
 - (1) Show client's logo/model on the device/label/management interface...
 - (2) Use client's packing box
 - (3) Design client's product PVC sticker
 - (4) Customize some parts of a model like rear panel/power input terminal block...

Please know that there might be extra cost for OEM services.

Ordering Information

Commercial Managed Switch(Non-POE&POE Series) AC100~240V Input(With Internal AC to 12V/52V-based DC Converter)	
Model name	Description
STC-28GM	2*Gigabit SFP+8*10/100/1000M RJ45 L2 Managed, Non-POE, Desktop type, Internal DC12V2A Converter
STC-424GM	4*Gigabit SFP+24*10/100/1000M RJ45 L2 Managed, Non-POE, 1U rack, AC Input, Internal DC12V3A Converter
STC-424XGGM	4*10 Gigabit SFP+24*10/100/1000M RJ45 L3 Managed, Non-POE, 1U rack, AC Input, Internal DC12V3A Converter
STC-4248XGGCM	4*10 Gigabit SFP+16*Gigabit SFP+8*Gigabit SFP/RJ45(Combo ports) L3 Managed, Non-POE, 1U rack, AC Input, Internal DC12V8A Converter
STC-448XGGM	4*10 Gigabit SFP+48*10/100/1000M RJ45 L3 Managed, Non-POE, 1U rack, AC Input, Internal DC12V8A Converter
STC-120XGM	12*10 Gigabit SFP L3 Managed, Non-POE, 1U rack, AC Input, Internal DC12V8A Converter
STC-624XGDGM	6*10 Gigabit SFP+24*10/100/1000/2500M RJ45 L3 Managed, Non-POE, 1U rack, AC Input, Internal DC12V4A Converter
STC-28GPM	2*Gigabit SFP+8*10/100/1000M POE af/at RJ45 L2 Managed, 120W, Desktop type, AC Input, Internal DC52V2.3A Converter
STC-2216GPM	2*Gigabit SFP+2*10/100/1000M Ethernet+16*10/100/1000M POE af/at RJ45 L2 Managed, 300W, 1U rack, AC Input, Internal 52V5.76A Converter
STC-4424GCPM	4*Gigabit SFP/RJ45(Combo ports)+24*10/100/1000M POE af/at RJ45 L2 Managed, 300W, 1U rack, AC Input, Internal 52V5.76A Converter
STC-424XGGPM	4*10 Gigabit SFP+24*10/100/1000M POE af/at RJ45 L3 Managed, 300W, 1U rack, AC Input, Internal 52V5.76A Converter
STC-448XGGPM	4*10 Gigabit SFP+48*10/100/1000M POE af/at RJ45 L3 Managed, 400W, 1U rack, AC Input, Internal 52V7.5A Converter
STC-624XGDGPM	6*10 Gigabit SFP+24*10/100/1000/2500M POE af/at RJ45 L3 Managed, 400W, 1U rack, AC Input, Internal 52V7.5A Converter
Power cord is included in both the packing box and unit pricing. SFP transceiver is NOT included in both the packing box and unit pricing. Please let us know if you need any customized model.	

After-sales support

Warranty comes in effect from the date of delivery.

If something is wrong with the package or usage, please let us know asap.

Case 1, package problem

Any faulty/missing parts in the packing box, Saga telecom will help do the replacement or refund.

Case 2, usage problem

The standard and most effective procedures(get a feedback form from us) are as below

1, describe what happened, examples as below

- When this problem occurred
- What you did to adjust it like restart the device or change new accessories
- How you use this device like outdoor use for connecting some IP cameras

With this information, Saga telecom could quickly know what is going on and do trouble-shooting

2, provide as many actual photos/video as possible

Wrong connection or improper use may occur.

In this case, photos and videos are helpful and efficient.

3, prepare necessary and relevant accessories such as SFP module/network cable/patch-cord...

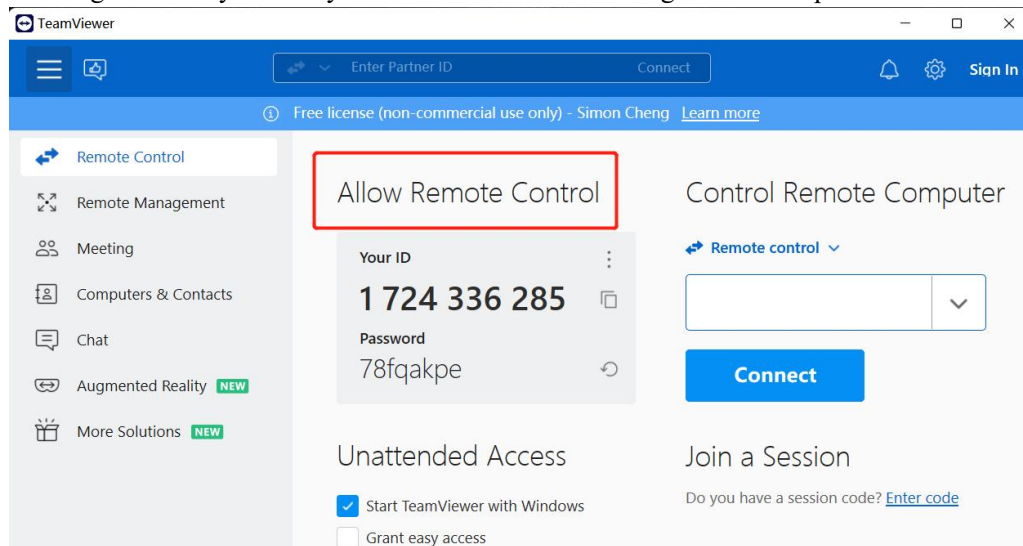
An example is, in a linear network connection, if one SFP module fails, the whole system might have a transmission problem.

The solution would be as simple as replacing a new workable SFP module.

With in-hand accessories, sometimes it is easy to fix the problem.

4, get ready for online meeting

Saga telecom might remotely control your PC to do trouble-shooting with the help of Teamviewer.



For more information, please talk with us or visit www.sagatelecom.com.cn