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Please click the bookmarks for easier reading
Please pay attention to “remark” and “product query”

Model Name

STI-0160GE

ST: Saga Telecom

I: Industrial grade

0: 0 optical port

16: 16 Ethernet ports

0: 0 PoE port

G: Gigabit based

E: Ethernet(not all-fiber type)

It is advised to read specific product description for more information



Key Features

- 16*10/100/1000Base-TX RJ45 ports
- Redundant DC12-58V power input with polarity reverse/over-current protection
- Support one output relay alarm (terminal block Pin 5/6) for DC power failure
- Powerful DIP switch function (on the top panel)
 1. Port isolation;
 2. Flow control;
 3. QoS;
 4. Broadcast storm restrain
- Support 10K bytes jumbo frame
- Support 6KV surge protection and ESD: Air-15KV, Contact-8KV protection
- IP40 fan-less and Din-rail design
- Operation temperature: -40°C~+75°C

With above features, it is an ideal solution for IP Surveillance, wind, electricity, assembly automation, subway PIS, power SCADA, sewage treatment, metallurgy, intelligent transportation, rail transportation, military and other industries

Specification

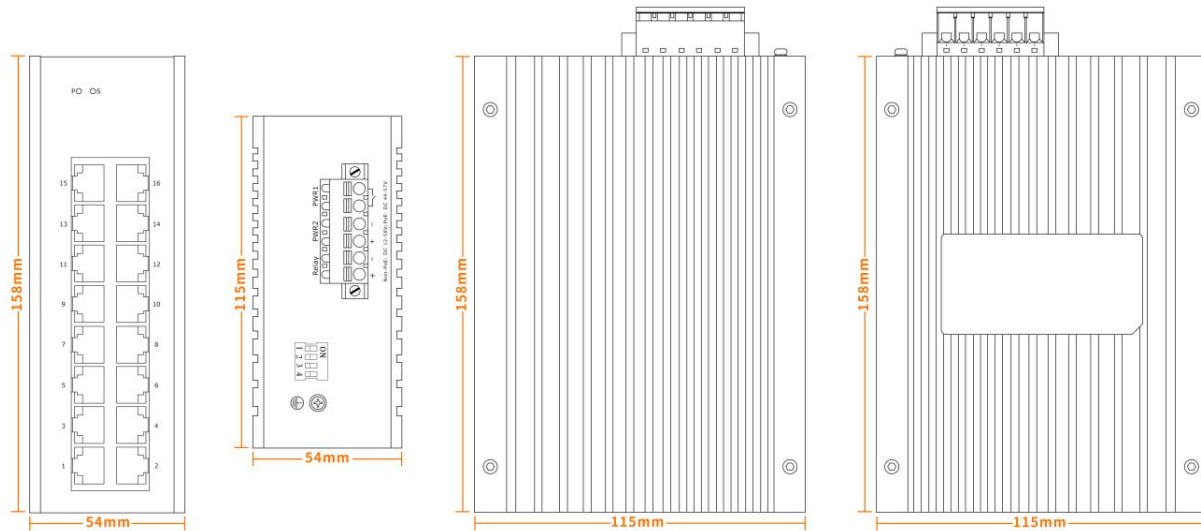
Product Name	16 Port 10/100/1000Mbps Industrial Ethernet Switch
Port	16*10/100/1000M Ethernet
Network Medium	10BASE-T: Cat3, 4, 5 or above UTP(≤100 meters) 100BASE-TX: Cat5 or above UTP(≤100 meters) 1000BASE-TX: Cat5 or above UTP(≤100 meters)
Network Protocol	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet
Alarm Port	One relay output for power failure Alarm relay current carry ability: 1A@24VDC
Switching Capacity	32Gbps
Throughput	47.6Mpps
Packet Buffer	2M
MAC Address	8K
VLAN	4K
Jumbo Frame	10Kbytes
Transfer Mode	Store and forward, forwarding delay<5us
MDX/MIDX	Support
Watchdog	Support
Network Topology	Star topology Bus topology Tree Topology
MTBF	200,000 hours
Input Voltage	DC12-58V, Redundant Input Removable 6 PIN Industrial Terminal Block, Pin 5-6 for relay alarm output
Input Current	5.6A Max
Total Power Consumption	Full loading≤8W
Reverse Polarity Protection	Support
Over-current Protection	Support
Industry Standard	EMI: FCC Part 15B Class A Surge protection of power: IEC 61000-4-5 6KV/4KV(8/20us) Surge protection of Ethernet ports: IEC 61000-4-5 6KV/2KV(10/700us) RS: IEC 61000-4-3 80 MHz-1 GHz: 10V/m EFT: IEC 61000-4-4 power interface: 4K; Ethernet ports: 2K CS: IEC 61000-4-6 10V ESD: IEC 61000-4-2 Level 4(8K/15K) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6

Protection Level	IP40
Installation	Din Rail or Wall Mounted(1pc mounting hanger is offered)
Certification	CE/FCC/RoHS/Reach/UKCA
Working Environment	Working Temperature: -40°C~75°C Storage Temperature: -40°C~85°C Relative Humidity: 5%~95%, non-condensing
DIP	<ol style="list-style-type: none"> 1. Port isolation 2. Flow control 3. QoS(1-2 ports) 4. Broadcast storm restrain
LED Indicators	<p>PWR(Power indicator), Green Color On: power status is normal Off: power off or power connection failure</p> <p>S(System indicator), Red Color On: the chip read/write is abnormal Off: the chip is normally operating</p> <p>Ethernet Port</p> <ol style="list-style-type: none"> 1. Green Indicator On: port link up Off: port link down Blinking: data is in normal transmission 2. Yellow Indicator On: port speed is 1000M Off: port speed is 10/100M

Application

- Industrial Automation
- IP-based Communication
- Vehicle Network Solution

Mechanical Drawing



Remark

Please contact us if the source file is needed

Packing List

- 1pc switch
- 1pc wall hanger(shared holes with DIN Rail Kit)
- 1pc user manual(including QIG information)

Please know that there is NOT a warranty card in the packing box

A “Certificate of Warranty” will be issued to indicate the order information and warranty coverage



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

Product size: 158*115*54mm

Inner box size: 230*180*70mm

Product weight: 1.2Kg

Packing weight: 1.4Kg

Master box size: 440*375*250mm

Packing quantity: 12Pcs

Packing weight: 18Kg

Remark

Accessories(power supply etc.)are NOT included in the packing box

Please prepare it by yourself or purchase a whole set from us

Product Picture



Remark

Please let us know if you need to check actual photos(not PS-modified)

Bullet Points

This helps you understand the unique features of our models and why choose us

1. Expert Design

We borrow the case design idea from Moxa and Simens(to have beauty, professionalism and practicality in an industrial design)

- (1) The upper panel, aluminum
- (2) The other sides, iron
- (3) The curves and textures



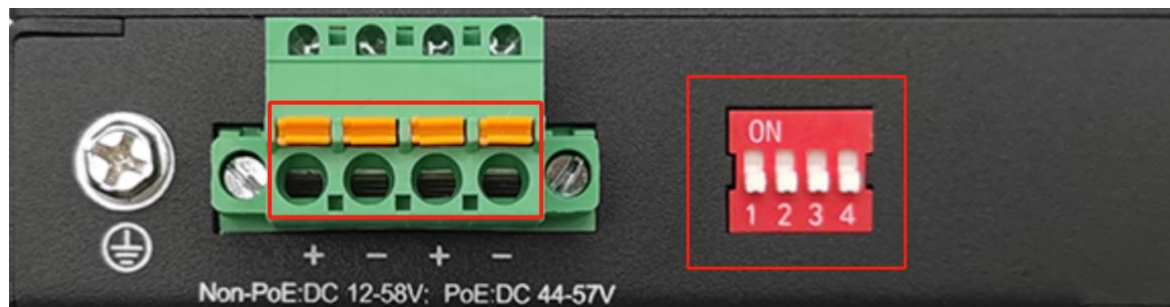
This ensures beautiful outlook and good heat dissipation especially for PoE models

2. DIP Function

This offers useful and flexible configurations based on the same model

3. Push-in Terminal Block

This is much easier in installation than traditional screw-type terminal block



For many models on the market

1. The design is not so good
2. Without DIP function
3. Traditional screw-type terminal block

FAQ

General Query

● Leadtime

Production starts **AFTER** payment is received

1. Please know that it usually takes 1~2 working days for our bank to receive the payment
2. Production time is usually 4~7 working days for standard(non-customized)models(no more than 50Pcs)
3. Shipping time is usually 4~7 days by express

In total, it takes 10~15 calendar days to arrive at local customs for clearance

This is an estimated period, it usually does not take this long to receive the order

● Shipment

1. We will send the goods by express(DHL, UPS or FEDEX)or by sea(for bulk orders)
2. It is fine to ship purchased items via client's shipping account(DHL, UPS or FEDEX) or forwarders in China

● 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 orders

Please know that we do NOT suggest 1pc/pair in sample testing, better make it at least 2 pieces/pairs in case of any possible dysfunction in production/transportation(then all efforts are gone, a big waste of time)

● 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

● Discount

Available and it is usually based on quantity and AFTER sample testing

1. The price negotiation makes sense ONLY IF a client is satisfied with the quality
2. For distributorship, that we are now seeking, best prices will be provided

● Payment

1. T/T transfer and PayPal
2. It is fine to pay 50% first and another 50% before shipment for a bulk order(**this is about standard/non-customized models**)
3. **FULL PAYMENT for a customization order BEFORE PRODUCTION(non-negotiated)**
4. It is fine to be paid via client's forwarder(this is usually about RMB payment on Alipay or WeChat)

● 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

● User Manual

Please know that there is a user manual(with necessary information for usage and installation)in the packing box

Actually most of the necessary information is available in this datasheet

We can help print a copy of your version and put it in the packing box

● Packing Box

1. Without Chinese letters or logo
2. Hard carton, resilient to wrinkle, good for reselling even after shipment(there is protective foam inside to avoid possible damage)
3. Customized version is available(with your logo/model/slogan or remove the patterns), but there is MoQ and cost for this, discussion is required

● Label

1. There is product information/model name/serial number on the label

It is fine to write client's version

2. Standard language is English

If a different language is adopted like Russian, Italian, Korean...

Please share EXACT translation, we will simply copy and print

3. Barcodes are scannable for inbound statistics

4. "Made in China" description is there and can be removed if required

5. An example photo will be shared for confirmation before mass printing for a bulk order

There are 2 copies for each manufactured product. One is attached on the device, the other is on the packing box

● Certification

CE/RoHS/FCC/Reach/UKCA

Please let us know if you need to check the certificates

● RMA

Please contact us ASAP once there is a problem of ANY KIND

Please also read below "after-sales support" information to understand how to proceed

1. For every 100Pcs, there will be 2 extra free units(2% RMA)against immediate warranty coverage

2. 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(**in this occasion, we will be responsible for both product cost and shipping cost, but the local customs clearance cost, if any, is on clients**)

● SKD/CKD

Available

SKD is simple, please just let us know how you would like to have it

CKD usually involves confidential information such as BOM list, schematic design, PCB layout etc.

It is based on solid cooperation **AND** bulk orders, thorough discussion is required to do CKD mode

● OEM

Available

Discussion is required for complex changes, meanwhile an NDA(Non-disclosure Agreement)contract will be agreed upon and signed

Relevant cooperation information will not be leaked to a third party without client's permission

It is mainly about 2 categories

1. Industrial manufacturing

(1) Show client's logo/model on the device/label

(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/panels...

Please know that there might be an extra cost for such OEM services

2. Management features

(1) Show client's logo/model on the management interface

(2) Change IP address

(3) MAC address

(4) SNMP, OID

Above changes are free of cost and please know that

Font format&GUI color are NOT changeable for the management interface

We can also help with develop exact features/specifications based on given chips or PCB board designs, this is more complex, thorough discussion is required

2025/Q1

s.sagatelecom@gmail.com

Saga Telecom

www.sagatelecom.com.cn

- Incoterms

EXW term is our focus

Sometimes we do FOB/CIF for bulk orders, this depends on cases, please talk with us for more information

- Online Store

Currently we do not have an online store(Amazon, Shopify, Aliexpress etc.)

We will add a store link in this datasheet when available

- Branch/Distribution

Currently we do not have ANY overseas branches or distributors

We are actively seeking good agents/resellers to promote our brand and products

Necessary technical and pricing support will be provided

Please let us know if you are interested

Product Query

- If possible to remove DIP function?

A: Most of our industrial unmanaged switches have DIP function, it is uniform. And this is an advantage over other switches on the market

1. So NO for small quantities

Just do not use it(ignore it)if relevant functions are not needed

2. If it is about a bulk order, we can remove it for you(customization)

- Is it managed?

No, it is unmanaged

We have many managed switches for your choice

- What power supply should I use?

Please read below “ordering information” for our power supply models

Or it is fine to use a different brand, just make sure that the power input range stands in DC12V~DC58V

- Can your switches work with other brand switches?

Yes, it is unmanaged and about the universal networking protocols, so there will not be incompatibilities

- Can I just have a piece of PCB? I do not need the product case

Yes, we will pack the PCB board in an ESD bag, than locate it against the protective foam in the packing box

It is well protected from possible damage in transportation

Ordering Information

Industrial Ethernet Switch(Non-POE&Unmanaged Series), DC12V~DC58V, Din Mounted	
Model	Description
STI-050FE	5*10/100M RJ45
STI-080FE	8*10/100M RJ45
STI-110FE	1*100M Fiber+1*10/100M RJ45
STI-120FE	1*100M Fiber+2*10/100M RJ45
STI-140FE	1*100M Fiber+4*10/100M RJ45
STI-180FE	1*100M Fiber+8*10/100M RJ45
STI-220FE	2*100M Fiber+2*10/100M RJ45
STI-240FE	2*100M Fiber+4*10/100M RJ45
STI-260FE	2*100M Fiber+6*10/100M RJ45
STI-280FE	2*100M Fiber+8*10/100M RJ45
STI-050GE	5*10/100/1000M RJ45
STI-080GE	8*10/100/1000M RJ45
STI-0160GE	16*10/100/1000M RJ45
STI-110GE	1*100/1000M Fiber+1*10/100/1000M RJ45
STI-120GE	1*100/1000M Fiber+2*10/100/1000M RJ45
STI-140GE	1*1000M Fiber+4*10/100/1000M RJ45
STI-150GE	1*1000M Fiber+5*10/100/1000M RJ45
STI-180GE	1*1000M Fiber+8*10/100/1000M RJ45
STI-220GE	2*100/1000M Fiber+2*10/100/1000M RJ45
STI-240GE	2*1000M Fiber+4*10/100/1000M RJ45
STI-280GE	2*1000M Fiber+8*10/100/1000M RJ45
STI-2160GE	2*1000M Fiber+16*10/100/1000M RJ45
STI-480GE	4*1000M Fiber+8*10/100/1000M RJ45
STI-880GE	8*1000M Fiber+8*10/100/1000M RJ45

Industrial Din Power Adapter(-40°C~+75°C)	
STI-PA-20W-12V1.67A	90-264VAC Input, 12VDC Output, 1.67A, 20W, Plastic Case, Din Mounted
STI-PA-20W-24V0.83A	90-264VAC Input, 24VDC Output, 0.83A, 20W, Plastic Case, Din Mounted

Remark

1. Power Supply is **NOT** included in the packing box, **need to purchase individually**
2. Listed power supply specifications are **COMMONLY** used for this device

Please talk with us for more information

Order Procedure

1. Negotiation
2. Ordering
3. Payment
4. Shipment

Negotiation

- Discuss specification, quantity, customized requirements...

Move on to “Ordering” stage if every detail is finalized

- No agreement is achieved due to pricing, unavailable offer...

Wait for next business opportunity

Ordering

- Buyer sending PO

This is not necessarily required

- Seller drafting PI

Required

Contact information, pricing, quantity, shipping time etc. should be specified in this invoice

- Buyer checking

Make payment if PI is approved

Notify seller to revise the points in question

Payment

- PayPal/Bank transfer ONLY

PayPal is usually for sample orders, 5Usd will be charged for EVERY 100Usd into our A/C

Bank transfer is usually about repeat and bulk orders, standard charge in EACH order: 25Usd

- Buyer sending payment receipt

Material preparation starts

- Seller receiving payment

Production starts

Shipping

- Dispatch ready

Photos and videos of ordered units are available

Buyer confirmation(product label format, shipping marks...)is required to release out the order

- Shipping method

1. Via buyer’s designated forwarder, this is usually about buyer's shipping agent, we will directly send purchased items to agent for further processing

2. Via Saga Telecom’s shipping agent, we will quote based on total weight to buyer. It is usually air service by DHL/FedEx/UPS, cost will be included in PI after buyer approves

3. Via buyer’s shipping A/C(DHL/FedEx/UPS)

- Shipping number

Seller should send shipping information to buyer once available

Miscellaneous Fee

This covers most of small charges in an order

- PVC mask

MoQ: 300Pcs, unit price: 1usd/pc

Examples are:

1. An order less than 300Pcs, lets say 50Pcs

50Pcs will be consumed and 250Pcs are left at the moment(Either ship them together with the purchased items or **keep them in our warehouse for next orders**)

2. An order over 300Pcs, lets say 350Pcs

Then we could order an exact amount 350Pcs for this order

There will be none left



Remark

It is neutral device(without logo)in a standard order

- COO(Certificate of Origin)

15usd/EACH copy

1. Client needs to go through the content, it is non-modifiable once confirmed

2. **This has to be exercised AT LEAST 2 working days before shipment**

3. Please let us know how we handle the copy(attach it on the outside or put it inside the box)

- Transaction Cost

As stated in General Query, it is standard charge in EACH order

After-sales Support

Warranty comes in effect from the date of delivery

A “certificate of warranty” will be issued to indicate the coverage and relevant information

- If you have no idea how to install/configure/use the purchased devices, please contact us

A detailed introduction will be shared

- If something is faulty in usage(especially managed models)

1, please describe what happened, examples as below

- (1) When this problem occurred
- (2) What you did to adjust it like restart the device or change new accessories
- (3) 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, **please do your best to provide as many actual photos/videos as possible**

Wrong connection or improper use may occur, photos and videos are helpful and efficient

It is NOT suggested to discuss after-sales issues ONLY by text, we find it difficult to understand the situation and find out the root reasons

At the same time, we know that it might not be easy to get some photos/videos due to different reasons

Please try your best(at least draw a sketch or something), this is the most efficient method based on our many after-sales cases

3, please prepare necessary accessories such as new SFP modules/**other brand switches...**

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

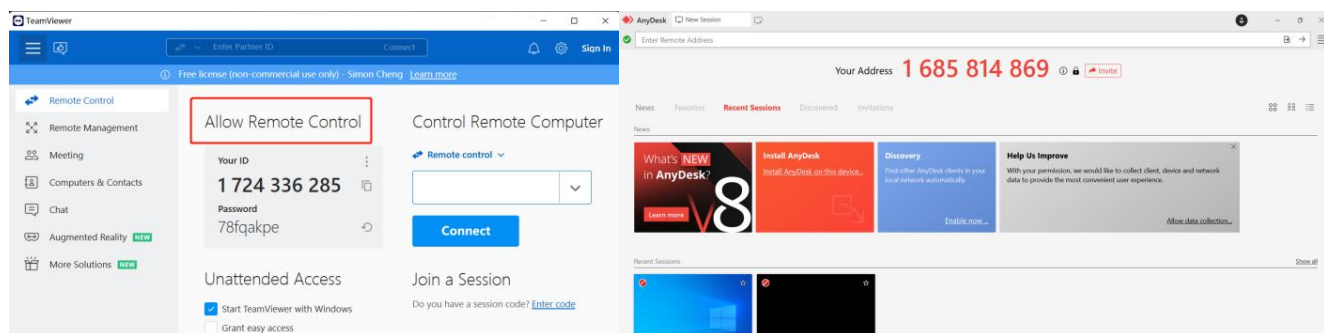
The solution would be as simple as replacing a new workable SFP module

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

4, please get ready for online meeting

If early tests and communication failed to identify the problem, an online meeting will be held to better discuss the after-sales issues(usually on Zoom or Microsoft Teams)

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



Please do NOT wire or test the devices casually without our knowing, just follow our instructions and our engineers will do next moves based on the feedback.

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

About Us

Saga Telecom is a reliable manufacturer and trader of good-quality fiber optic devices and transmission solutions, and focuses on industrial networking, CCTV surveillance, fiber optic conversion and featured optical devices for industrial automation, vehicle network, security monitoring etc.

Backed by diversified product portfolio and mature business system, Saga Telecom gains good feedback overseas especially in USA, Turkey, Italy, Russia and India

Meantime, Saga Telecom is actively seeking trustworthy partners and enhancing its presence in optical telecommunication field

Core Value

Connecting, Converting, Creating

Saga Telecom connects talents and ideas that may drive itself forward

Saga Telecom converts mature business system to all-round growth

Saga Telecom creates betterness from expertise and solution package

Product Line

Commercial Ethernet

Industrial Networking

Din Power Adapter

Ethernet Media Converter

PoE Accessory

Optical Module

Featured Optical Fiber Devices

A reliable networking solution supplier

STccc

How We Do Business

- Saga Telecom is being digital and paperless to be efficient and eco-friendly
- Simplified, Standard, Solution based
- All is about a s truly helpful solution

Saga Telecom proposes a buffet-style business communication

1. All the information is available without asking
2. Business details are being continuously updated
3. Value and growth manifest itself

1
A google link containing full information is created with access to everyone
Anyone could read or download it anytime and anywhere

People with access

General access

2
We have been absorbing useful information and will update it in the link
Like product query, application...
So latest information will be available all the time

3
We are welcoming comparisons and suggestions from you

- Compare our products with existing or other suppliers
- Let us know where we could improve

Saga Telecom aims to be a marathoner in fiber optic telecommunication field

A link to all the information

https://drive.google.com/drive/folders/10pI-PIGftC6UVEngjg_cLIC8-X14fA9A?usp=drive_link