Industrial Ethernet Solutions

▶ Company Profile

GSEE-TECH specializes in research, manufacture of industrial automation products and system solutions. Our business is divided into three parts: industrial communication, industrial connection and industrial components.

► Industrial communication

● Industrial Ethernet solutions

● Fieldbus modules: meet different fieldbus protocols such as PROFIBUS, CanOpen, DeviceNet, EtherCat, EtherNet/IP and PROFINET.

► Industrial connection

● Round connectors

● Rectangle connectors

● Servo connectors

● Customized solutions

► Industrial components

● LED lighting

● Position detection sensors：Such as inductive, photoelectric, capacitive, magnetic induction and travel sensors, and encoders

● Process control sensors：Such as flow sensors, pressure sensors, temperature sensors, and level sensors

● Interface products：Such as isolated barriers, isolators, power units, relays and surge protectors

Our products have been widely used in vehicle, metallurgy, machine tool, elevator, textile, wind power, solar energy, electric power, petroleum chemical, packaging, printing, food and beverage, engineering machinery, rail transportation, weather equipment, infrastructure construction and other industries.

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GIE 5 0 08 PL – 8T – 2SFP – 2C

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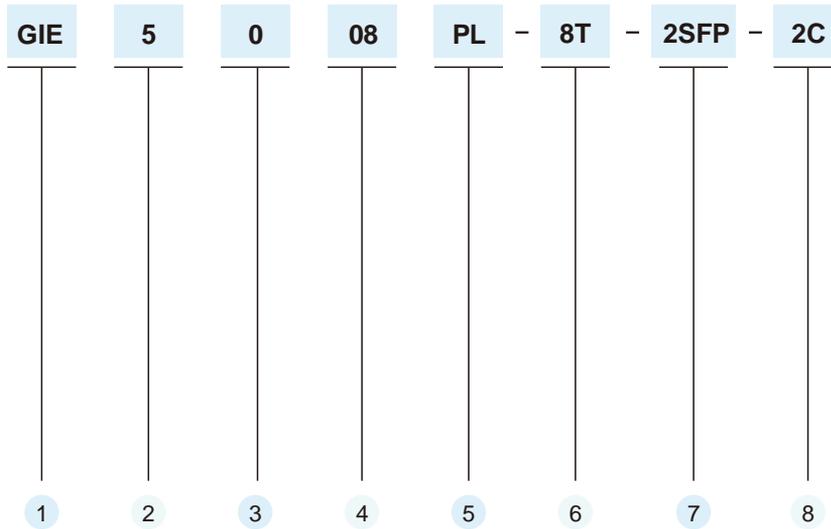
1 GSEE Industrial Ethernet Switch

5 PL - with PoE port
BLANK - without PoE port

2 Series
1 - Media converter
2 - Lite-unmanaged
3 - Unmanaged
4 - Lite-managed
5 - Managed
8 - L3 Managed

6 RJ45 port
8T - 8 10/100 Mbps
8GT-8 10/100/1000 Mbps
BLANK - without RJ45 port

3 Features
0 - DIN-Rail mounting
1 - 19'' rack mounting
3 - M12

7 Fiber port
2SFP - 2 SFP slot
2LC - 2 LC connector
2SC - 2 SC connector
BLANK - without Fiber port

4 Port Number

8 COMBO
2C - 2 COMBO port
BLANK - without COMBO port

Note: The model of SFP Fiber Transceiver, please reference the attachment

Lite-Unmanaged Switch

GSEE GIE2000 series provide 5/8 Ethernet ports, is the best cost-effective solution for industrial applications, providing copper and fiber connectivity based on field needs. It is designed for supporting standard industrial applications without complex setup to make the network truly plug-and-play. With its compact design, GIE2000 series is perfectly fit for the field-site applications.

Unmanaged Switch

GSEE GIE3000 series provide 5/8/26 Ethernet ports to fulfill the needs of the rapid growth of communication traffic in Industrial network. GIE3000 series are designed for supporting standard industrial applications without complex setup to make the network truly plug-and-play. With the QoS and traffic storm control, GIE3000 series switch are able to provide the high reliability user experience in the complex network.

PoE Switch

GSEE GIE3005PL series are 5-port, unmanaged Ethernet switches compliant with both IEEE 802.3at and IEEE 802.3at PoE standards and delivering up to 30 watts power per port along with data on standard Ethernet cabling. The switches can be used to power IEEE 802.3af/at standard devices (PD), which eliminates the need for additional wiring and ease the deployment for applications to reach power source.

Managed Switch

GSEE GIE5000 series provide 8/10/12/14/28 Ethernet ports to update the existing network to FE or GE speed infrastructure. The full Gigabit network provides higher overall throughput than a legacy Fast Ethernet network, and reduce the response time for timing sensitive applications that may mix of video,voice and data in its traffic pipe. With the powerful features, GIE5000 series managed switches are easily to prioritize, partition and organize user's network and provide reliable and good quality services.

L3 Managed Switch

GSEE GIE8010/GIE8128 L3 Ethernet Switch delivers high quality, wire-speed L3 routing performance, advanced features such as powerful VLAN operation, Police-based traffic manage & security, and intelligent management design, to fulfill different application scenario. It provides the scalability, flexibility & reliability for large network structure, and is also an ideal solution of L3 routing off-load for core network.

Monitor

Control Center

GIE8128-24GT-4SFP
19`` rack mounting
L3 Managed

GIE8128-24GT-4SFP
19`` rack mounting
L3 Managed

Control

GIE5128-24GT-4SFP
DIN-Rail mounting
Managed

GIE5128-24GT-4SFP
DIN-Rail mounting
Managed

G-Ring<5ms

G-Ring<5ms

GIE5010-6GT-4SFP
DIN-Rail mounting
Managed

Access

G-Ring<5ms

G-Ring<5ms

GIE3005PL-4GT-SFP
DIN-Rail mounting
PoE Unmanaged

GIE3008-8T
DIN-Rail mounting
Unmanaged

GIE5010-6T-4SFP
DIN-Rail mounting
Managed

GIE5008-6GT-2SFP
DIN-Rail mounting
Managed

GIE5010-6GT-4SFP
DIN-Rail mounting
Managed

GIE3005-5T
DIN-Rail mounting
Unmanaged

GIE3008-6GT-2SFP
DIN-Rail mounting
Unmanaged

GIE3005-4T-SFP
DIN-Rail mounting
Unmanaged

Fiber（1000Base-X）

Fiber（100Base-FX）

EtherNet（10/100BASE-T(X) or 10/100/1000BASE-T(X)）

GIE2005

- 5 port unmanaged Industrial Fast Ethernet Switch，L2 wire-speed

- Support EtherNet/IP，ProfiNet，MODBUS TCP industrial protocol

- 1K MAC addresses

- Enable/Disable broadcast storm protection

- All RJ45 port with Electrostatic Discharge（ESD）function

- 12-58VDC Input voltage, Redundant Input Terminal, Reverse power protection

- Fan-less design, Wide Operating Temperature Range (-40 to +75°C)

- Certification compliance : CE FC

Switch Model	GIE2005
Ethernet	
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	1K
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
Fault contact	Power alarm relay output
DIP switches	Enable/Disable broadcast storm protection, Enable/Disable Power Alarm
Copper RJ45 Ports	10/100 Mbps speed auto-negotiation, MDI/MDIX Auto-crossover
Fiber port	100BaseFX ports (LC connector, multi-mode or single-mode)
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	12 ~ 58VDC
Current	137.5mA @ DC24V
Power consumption	Max. 3.3Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link & Speed
Environmental and Compliances	
Operating temp.	-40 ~ 75°C
Storage temp.	-40 ~ 85°C
Humidity	5 to 95% RH (non-condensing)
Vibration, shock	IEC60068-2-6,-27,-32
Certification	CE, FCC

EMC	FCC Part15,CISPR 22(EN55022) ClassA, IEC61000-4-2,-3,-4,-5,-6(Level 3)
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>50 years
Mechanical	
Ingress protection	IP40
Installation option	DIN-Rail mounting, Wall mounting
Dimension	112.2mm(H)×29.1mm(W)×89.4mm(D)
Weight	295g

Order information

Model	Description	Ethernet Port		
		10/100BaseT(X)	100FX (LC connector)	
		Port #	Multi-Mode (2km)	Single-Mode (40km)
GIE2005-5T	5-port FE Unmanaged	5		
GIE2005-4T-LC2	5-port FE Unmanaged	4	1	
GIE2005-4T-LC40	5-port FE Unmanaged	4		1

GIE2008

- 8 port unmanaged Industrial Fast Ethernet Switch，L2 wire-speed

- Support EtherNet/IP，ProfiNet，MODBUS TCP industrial protocol

- 1K MAC addresses

- Enable/Disable broadcast storm protection

- All RJ45 port with Electrostatic Discharge（ESD）function

- 12-58VDC Input voltage, Redundant Input Terminal, Reverse power protection

- Fan-less design, Wide Operating Temperature Range (-40 to +75°C)

- Certification compliance：CE FC

Switch Model	GIE2008
Ethernet	
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	1K
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
Fault contact	Power alarm relay output
DIP switches	Enable/Disable broadcast storm protection, Enable/Disable Power Alarm
Copper RJ45 Ports	10/100 Mbps speed auto-negotiation, MDI/MDIX Auto-crossover
Fiber port	100BaseFX ports (LC connector, multi-mode or single-mode)
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	12 ~ 58VDC
Current	312.5mA @ DC24V
Power consumption	Max. 7.5Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link & Speed
Environmental and Compliances	
Operating temp.	-40 ~ 75°C
Storage temp.	-40 ~ 85°C
Humidity	5 to 95% RH (non-condensing)
Vibration, shock	IEC60068-2-6,-27,-32
Certification	CE, FCC

EMC	FCC Part15,CISPR 22(EN55022) ClassA, IEC61000-4-2,-3,-4,-5,-6(Level 3)
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>50 years
Mechanical	
Ingress protection	IP40
Installation option	DIN-Rail mounting, Wall mounting
Dimension	117.8mm(H)×39mm(W)×96.9mm(D)
Weight	395g

Order information

Model	Description	Ethernet Port	
		10/100BaseT(X)	100BaseSFP Slot
GIE2008-8T	8-port FE Unmanaged	8	
GIE2008-6T-2SFP	8-port FE Unmanaged	6	2

GSEE TECH

GIE3005

- 5 port unmanaged Industrial Ethernet Switch , L2 wire-speed

- Support EtherNet/IP , ProfiNet , MODBUS TCP industrial protocol

- 2K MAC addresses, 9K Bytes frames

- Enable/Disable broadcast storm protection

- Queues per port: 4

- Support 802.1p & TOS/DS QoS

- All RJ45 port with Electrostatic Discharge（ESD）function

- 12-58VDC Input voltage, Redundant Input Terminal, Reverse power protection

- Fan-less design, Wide Operating Temperature Range (-40 to +75°C)

- Certification compliance : CE FC

Switch Model	GIE3005
Ethernet	
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	2K
Jumbo frames	9K Bytes
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
Number of queues	4
Traffic Shaper	Port-based Port shaping
Copper RJ45 Ports	
Speed	FE 10/100 Mbps, GE 10/100/1000 Mbps
MDI/MDIX	Auto-crossover
auto-negotiation	Yes
SFP (pluggable) Ports	
Port	100/1000BaseSFP slot
Fiber port connector	LC typically for fiber (depends on module)
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	12 ~ 58VDC
Current	158.3mA @ DC24V
Power consumption	Max. 3.8Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link/Speed

Environmental and Compliances	
Operating temp.	-40 ~ 75°C
Storage temp.	-40 ~ 85°C
Humidity	5 ~ 95%RH (non-condensing)
Vibration, shock	IEC60068-2-6,-27,-32
Certification	CE, FCC
Electrical safety	CE
EMC	FCC Part15,CISPR 22(EN55022) ClassA, IEC61000-4-2,-3,-4,-5,-6(Level 3)
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>80 years
Mechanical	
Ingress protection	IP40
Installation option	DIN-Rail mounting, Wall mounting
Dimension	112.2mm(H)×29.1mm(W)×89.4mm(D)
Weight	329g

Order information

Model	Description	Ethernet Port		
		10/100BaseT(X)	10/100/1000BaseT(X)	100/1000BaseSFP
GIE3005-5T	5-port Unmanaged	5		
GIE3005-4T-SFP	5-port Unmanaged	4		1
GIE3005-5GT	5-port Gigabit Unmanaged		5	
GIE3005-4GT-SFP	5-port Gigabit Unmanaged		4	1

GIE3008

- 8 port unmanaged Industrial Ethernet Switch，L2 wire-speed

- Support EtherNet/IP，ProfiNet，MODBUS TCP industrial protocol

- 8K MAC addresses, 9K Bytes frames

- Enable/Disable broadcast storm protection

- Queues per port: 4

- Support 802.1p & TOS/DS QoS

- All RJ45 port with Electrostatic Discharge（ESD）function

- 12-58VDC Input voltage, Redundant Input Terminal, Reverse power protection

- Fan-less design, Wide Operating Temperature Range (-40 to +75°C)

- Certification compliance : CE FC

Switch Model	GIE3008
Ethernet	
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	8K
Jumbo frames	9K Bytes
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
Number of queues	4
Traffic Shaper	Port-based Port shaping
Copper RJ45 Ports	
Speed	FE 10/100 Mbps, GE 10/100/1000 Mbps
MDI/MDIX	Auto-crossover
auto-negotiation	Yes
SFP (pluggable) Ports	
Port	100/1000BaseSFP slot
Fiber port connector	LC typically for fiber (depends on module)
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	12 ~ 58VDC
Current	329mA @ DC24V
Power consumption	Max. 7.9Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link/Speed

Environmental and Compliances	
Operating temp.	-40 ~ 75°C
Storage temp.	-40 ~ 85°C
Humidity	5 ~ 95%RH (non-condensing)
Vibration, shock	IEC60068-2-6,-27,-32
Certification	CE, FCC
Electrical safety	CE
EMC	FCC Part15,CISPR 22(EN55022) ClassA, IEC61000-4-2,-3,-4,-5,-6(Level 3)
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>80 years
Mechanical	
Ingress protection	IP40
Installation option	DIN-Rail mounting, Wall mounting
Dimension	117.8mm(H)×39mm(W)×96.9mm(D)
Weight	439g

Order information

Model	Description	Ethernet Port		
		10/100BaseT(X)	10/100/1000BaseT(X)	100/1000BaseSFP
GIE3008-8T	8-port Unmanaged	8		
GIE3008-6T-2SFP	8-port Unmanaged	6		2
GIE3008-8GT	8-port Gigabit Unmanaged		8	
GIE3008-6GT-2SFP	8-port Gigabit Unmanaged		6	2

GIE3126

- 26 port unmanaged Industrial Ethernet Switch，L2 wire-speed

- Support EtherNet/IP，ProfiNet，MODBUS TCP industrial protocol

- 8K MAC addresses, 9K Bytes frames

- Enable/Disable broadcast storm protection

- Queues per port: 8

- Support 802.1p & TOS/DS QoS

- All RJ45 port with Electrostatic Discharge（ESD）function

- Input voltage, Redundant Input Terminal, Reverse power protection

- Fan-less design, Wide Operating Temperature Range (-40 to +75°C)

- Certification compliance : CE FC

Switch Model	GIE3126
Ethernet	
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	8K
Jumbo frames	9K Bytes
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
Number of queues	8
Traffic Shaper	Port-based Port shaping
Copper RJ45 Ports	
Speed	GE 10/100/1000 Mbps
MDI/MDIX	Auto-crossover
auto-negotiation	Yes
SFP (pluggable) Ports	
Port	100/1000BaseSFP slot
Fiber port connector	LC typically for fiber (depends on module)
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	AC：100 ~ 240VAC，50Hz-60Hz
Current	AC：100mA @ AC220V
Power consumption	AC：Max. 22Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link/Speed

Environmental and Compliances	
Operating temp.	-40 ~ 75°C
Storage temp.	-40 ~ 85°C
Humidity	5 ~ 95%RH (non-condensing)
Vibration, shock	IEC60068-2-6,-27,-32
Certification	CE, FCC
Electrical safety	CE
EMC	FCC Part15,CISPR 22(EN55022) ClassA, IEC61000-4-2,-3,-4,-5,-6(Level 3)
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>80 years
Mechanical	
Ingress protection	IP40
Installation option	19'' rack mounting
Dimension	440mm(W)×44mm(H)×253mm(D)
Weight	3000g

Order information

Model	Description	Ethernet Port	
		10/100/1000BaseT(X)	100/1000BaseSFP
GIE3126-24GT-2SFP	26-port Gigabit Unmanaged	24	2

GIE3305N1
GIE3308N1

- IP67 unmanaged Industrial Fast Ethernet Switch，L2 wire-speed

- Support EtherNet/IP，ProfiNet，MODBUS TCP industrial protocol

- Redundant Input Terminal, Reverse power protection

- All RJ45 port with Electrostatic Discharge（ESD）function

- Fan-less design, Wide Operating Temperature Range

Technical Specifications

Switch Model	GIE3305N1	GIE3308N1
Ethernet interface	5 M12	8 M12
MAC addresses	2K	
M12 port	M12 D code 10/100M port，4 pin female connector	
Power input	10-30VDC	10-30VDC
Current	215 mA @ DC24V	250 mA @ DC24V
Power consumption	5.16 Watts	6 Watts
Operating temp.	-40 ~ 80°C	-40 ~ 70°C
Ingress protection	IP67	
Certification	The EN 50155 certification, can be used in the railway industry	
Installation option	DIN-Rail mounting	
Dimension	127mm(H)×111.76mm(W)×45.72mm(D)	170.18mm(H)×170.18mm(W)×45.72mm(D)
Weight	816.47g	1496.85g

Order information

GIE3305N1-5T	5-port IP67 unmanaged switch	5个10/100BaseT(X) M12-D code
GIE3308N1-8T	8-port IP67 unmanaged switch	8个10/100BaseT(X) M12-D code

GIE3005PL

- 5 port PoE unmanaged Industrial Ethernet Switch, IEEE 802.3af PoE & IEEE 802.3at PoE+ complaint

- Support EtherNet/IP，ProfiNet，MODBUS TCP industrial protocol

- 2K MAC addresses, 9K Bytes frames

- Enable/Disable broadcast storm protection

- Queues per port: 4

- Support 802.1p & TOS/DS QoS

- All RJ45 port with Electrostatic Discharge（ESD）function

- 12-58VDC Input voltage, Redundant Input Terminal, Reverse power protection

- Fan-less design, Wide Operating Temperature Range (-40 to +75°C)

- Certification compliance : CE FC

Switch Model	GIE3005PL
Ethernet	
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	2K
Jumbo frames	9K Bytes
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
Number of queues	4
Traffic Shaper	Port-based Port shaping
PoE	IEEE 802.3at PoE PSE, 15.4W/30W
Copper RJ45 Ports	
Speed	FE 10/100 Mbps, GE 10/100/1000 Mbps
MDI/MDIX	Auto-crossover
auto-negotiation	Yes
SFP (pluggable) Ports	
Port	100/1000BaseSFP slot
Fiber port connector	LC typically for fiber (depends on module)
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	12 ~ 58VDC
Current	5.13A @ DC24V
Power consumption	Max．123 Watts
Indicators	
Power Status	Indication of power input status

Ethernet port status	Link/Speed
PoE indication	PoE power status indication
Environmental and Compliances	
Operating temp.	-40 ~ 75°C
Storage temp.	-40 ~ 85°C
Humidity	5 ~ 95%RH (non-condensing)
Vibration, shock	IEC60068-2-6,-27,-32
Certification	CE, FCC
Electrical safety	CE
EMC	FCC Part15,CISPR 22(EN55022) ClassA, IEC61000-4-2,-3,-4,-5,-6(Level 3)
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>80 years
Mechanical	
Ingress protection	IP40
Installation option	DIN-Rail mounting, Wall mounting
Dimension	139mm(H)×29.1mm(W)×107mm(D)
Weight	469g

Order information

Model	Description	Ethernet Port		
		10/100BaseT(X) None PoE	10/100BaseT(X) PoE	100/1000BaseSFP
GIE3005PL-5T	5-port PoE Unmanage, IEEE 802.3af/at	1	4(af/at)	
GIE3005PL-4T-SFP	5-port PoE Unmanage, IEEE 802.3af/at		4(af/at)	1

Model	Description	Ethernet Port		
		10/100/1000BaseT(X) None PoE	10/100/1000BaseT(X) PoE	100/1000BaseSFP
GIE3005PL-5GT	5-port Gigabit PoE Unmanaged, IEEE 802.3af/at	1	4(af/at)	
GIE3005PL-4GT-SFP	5-port Gigabit PoE Unmanaged, IEEE 802.3af/at		4(af/at)	1

GIE4005

- 5 port lite-managed Industrial Ethernet Switch，L2 wire-speed

- Support EtherNet/IP，ProfiNet，MODBUS TCP industrial protocol

- Support Ring protection & LLDP

- 2K MAC addresses, 9K Bytes frames, Queues per port: 4

- Enable/Disable broadcast storm protection

- Support 802.1p & TOS/DS QoS

- All RJ45 port with Electrostatic Discharge（ESD）function

- 12-58VDC Input voltage, Redundant Input Terminal, Reverse power protection

- Fan-less design, Wide Operating Temperature Range (-40 to +75°C)

- Certification compliance : CE FC

Switch Model	GIE4005
Ethernet	
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	2K
Jumbo frames	9K Bytes
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
Number of queues	4
Traffic Shaper	Port-based Port shaping
LLDP	IEEE 802.1ab Link layer Discovery Protocol (LLDP)
Copper RJ45 Ports	
Speed	FE 10/100 Mbps, GE 10/100/1000 Mbps
MDI/MDIX	Auto-crossover
auto-negotiation	Yes
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	12 ~ 58VDC
Current	165mA @ DC24V
Power consumption	Max. 3.96 Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link/Speed
Environmental and Compliances	
Operating temp.	-40 ~ 75°C

Storage temp.	-40 ~ 85°C
Humidity	5 ~ 95%RH (non-condensing)
Vibration, shock	IEC60068-2-6,-27,-32
Certification	CE, FCC
Electrical safety	CE
EMC	FCC Part15,CISPR 22(EN55022) ClassA, IEC61000-4-2,-3,-4,-5,-6(Level 3)
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>80 years
Mechanical	
Ingress protection	IP40
Installation option	DIN-Rail mounting, Wall mounting
Dimension	112.2mm(H)×29.1mm(W)×89.4mm(D)
Weight	329g

Order information

Model	Description	Ethernet Port	
		10/100BaseT(X)	10/100/1000BaseT(X)
GIE4005-5T	5-port Lite-managed	5	
GIE4005-5GT	5-port Gigabit Lite-managed		5

GIE5008

- 8 port managed Industrial Ethernet Switch，All RJ45 port with Electrostatic Discharge function

- LACP / STP / RSTP / MSTP，Private G-Ring<5ms, quick Ring fail-over protection

- Static routing, support the communication between different vlans

- Support Muti-Single Ring / Ring Coupling / Dual Homing / Chain / Balancing Chain

- LLDP / NTP / DHCP / IPv6 / QoS (SPQ, WRR, SPQ + WRR)

- ACL，MVR (Multicast VLAN Registration) / IGMP

- CLI / Web / Telnet, SNMP / RMON，IEEE 802.1X / RADIUS / TACACS+ / AAA / SSH / HTTPS

- Port-based /tag-based VLAN, IEEE 802.1ad/QinQ VLAN, Add/remove VLAN tags，PVLAN，Voice VLAN

- Support EtherNet/IP，ProfiNet，MODBUS TCP industrial protocol

- Certification compliance : CE FC

Switch Model	GIE5008
Ethernet	
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	8K
Jumbo frames	9K Bytes
Copper RJ45 Ports	
Speed	FE 10/100 Mbps, GE 10/100/1000 Mbps
MDI/MDIX	Auto-crossover
auto-negotiation	Yes
SFP (pluggable) Ports	
Port	100/1000BaseSFP slot
Fiber port connector	LC typically for fiber (depends on module)
Network Redundancy	
Fast failover ring	G-Ring, Link loss recovery < 5ms
Ring Protocol	G-Ring、Muti-Single Ring、Ring Coupling、Dual Homing / Chain / Balancing Chain
Spanning Tree Protocol	IEEE 802.1D STP，IEEE 802.1w RSTP，IEEE 802.1s MSTP
Port Trunk with LACP	Static trunk or Dynamic via LACP (Link Aggregation Control Protocol)
Bridge, VLANs & Protocols	
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)
Max VLANs	256
VLAN Types	Port-based / MAC / tag VLAN，IEEE 802.1Q VLAN，IEEE 802.1ad / QinQ VLAN，PVLAN，Voice VLAN
Multicast protocols	IGMP v1,v2,v3 with up to 255 multicast groups，IGMP snooping and querying
	Immediate leave and leave proxy, MVR (Multicast VLAN Registration)，Throttling and filtering

LLDP	IEEE 802.1ab Link layer Discovery Protocol (LLDP)
Traffic management & QoS	
ACL	Policy/profile-based Access Control List , Multi-layer L2/L3/L4 ACL Access Control
Queues per port	8
QoS	SPQ, WRR, SPQ + WRR
Traffic Shaper	Port-based shaping
Security	
Port security	IP and MAC-based access control, IEEE 802.1X authentication Network Access Control
Storm Control	Multicast/Broadcast/Flooding Storm Control
Management	
User Management	CLI / WEB / Telnet , SNMP v1/v2c/v3
Management Security	HTTPs / SSH / Radius Client / TACACS+
Upgrade & Restore	TFTP/FTP for Configuration Import/Export, TFTP/FTP for Firmware Upgrade
Diagnostic	Syslog、Per VLAN mirroring、Ethernet Copper connection diagnostic tool
MIBs	RFC 1757 RMON 1,2,3,9；RFC 2674 Q-Bridge MIB RFC-1213 MIB-II；RFC-1493 Bridge MIB；RFC 2233 IF MIB
DHCP	Yes
NTP/SNTP	Yes
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	12 ~ 58VDC
Current	298.7mA @ DC24V
Power consumption	Max. 7.17 Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link/Speed
Environmental and Compliances	
Operating temp.	-40 ~ 75°C
Storage temp.	-40 ~ 85°C
Humidity	5 ~ 95%RH (non-condensing)
Vibration, shock	IEC60068-2-6；IEC60068-2-27；IEC60068-2-32
Certification	CE, FCC
Electrical safety	CE
EMC	FCC Part15,CISPR 22(EN55022) ClassA, IEC61000-4-2,-3,-4,-5,-6(Level 3)
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>50 years

Mechanical	
Ingress protection	IP40
Installation option	DIN-Rail mounting, Wall mounting
Dimension	154mm(H)×60mm(W)×109mm(D)
Weight	1056g

Order information

Model	Description	Ethernet Port		
		10/100BaseT(X)	10/100/1000BaseT(X)	100/1000BaseSFP
GIE5008-8T	8-port Managed	6	2	
GIE5008-6T-2SFP	8-port Managed	6		2
GIE5008-8GT	8-port Gigabit Managed		8	
GIE5008-6GT-2SFP	8-port Gigabit Managed		6	2

GIE5010

- 10 port managed Industrial Ethernet Switch，All RJ45 port with Electrostatic Discharge function

- LACP / STP / RSTP / MSTP，Private G-Ring<5ms, quick Ring fail-over protection

- Static routing, support the communication between different vlans

- Support Muti-Single Ring / Ring Coupling / Dual Homing / Chain / Balancing Chain

- LLDP / NTP / DHCP / IPv6 / QoS（SPQ, WRR, SPQ + WRR）

- ACL，MVR (Multicast VLAN Registration) / IGMP

- CLI / Web / Telnet, SNMP / RMON，IEEE 802.1X / RADIUS / TACACS+ / AAA / SSH / HTTPS

- Port-based /tag-based VLAN, IEEE 802.1ad/QinQ VLAN, Add/remove VLAN tags，PVLAN，Voice VLAN

- Support EtherNet/IP，ProfiNet，MODBUS TCP industrial protocol

- Certification compliance : CE FC

Switch Model	GIE5010
Ethernet	
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	8K
Jumbo frames	9K Bytes
Copper RJ45 Ports	
Speed	FE 10/100 Mbps, GE 10/100/1000 Mbps
MDI/MDIX	Auto-crossover
auto-negotiation	Yes
SFP (pluggable) Ports	
Port	100/1000BaseSFP slot
Fiber port connector	LC typically for fiber (depends on module)
Network Redundancy	
Fast failover ring	G-Ring, Link loss recovery < 5ms
Ring Protocol	G-Ring、Muti-Single Ring、Ring Coupling、Dual Homing / Chain / Balancing Chain
Spanning Tree Protocol	IEEE 802.1D STP，IEEE 802.1w RSTP，IEEE 802.1s MSTP
Port Trunk with LACP	Static trunk or Dynamic via LACP (Link Aggregation Control Protocol)
Bridge, VLANs & Protocols	
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)
Max VLANs	256
VLAN Types	Port-based / MAC / tag VLAN，IEEE 802.1Q VLAN，IEEE 802.1ad / QinQ VLAN，PVLAN，Voice VLAN
Multicast protocols	IGMP v1,v2,v3 with up to 255 multicast groups，IGMP snooping and querying Immediate leave and leave proxy, MVR (Multicast VLAN Registration)，Throttling and filtering

LLDP	IEEE 802.1ab Link layer Discovery Protocol (LLDP)
Traffic management & QoS	
ACL	Policy/profile-based Access Control List，Multi-layer L2/L3/L4 ACL Access Control
Queues per port	8
QoS	SPQ, WRR, SPQ + WRR
Traffic Shaper	Port-based shaping
Security	
Port security	IP and MAC-based access control, IEEE 802.1X authentication Network Access Control
Storm Control	Multicast/Broadcast/Flooding Storm Control
Management	
User Management	CLI / WEB / Telnet，SNMP v1/v2c/v3
Management Security	HTTPs / SSH / Radius Client / TACACS+
Upgrade & Restore	TFTP/FTP for Configuration Import/Export, TFTP/FTP for Firmware Upgrade
Diagnostic	Syslog、Per VLAN mirroring、Ethernet Copper connection diagnostic tool
MIBs	RFC 1757 RMON 1,2,3,9；RFC 2674 Q-Bridge MIB RFC-1213 MIB-II；RFC-1493 Bridge MIB；RFC 2233 IF MIB
DHCP	Yes
NTP/SNTP	Yes
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	12 ~ 58VDC
Current	304.2mA @ DC24V
Power consumption	Max. 7.3 Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link/Speed
Environmental and Compliances	
Operating temp.	-40 ~ 75°C
Storage temp.	-40 ~ 85°C
Humidity	5 ~ 95%RH (non-condensing)
Vibration, shock	IEC60068-2-6；IEC60068-2-27；IEC60068-2-32
Certification	CE, FCC
Electrical safety	CE
EMC	FCC Part15,CISPR 22(EN55022) ClassA, IEC61000-4-2,-3,-4,-5,-6(Level 3)
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>50 years

Mechanical	
Ingress protection	IP40
Installation option	DIN-Rail mounting, Wall mounting
Dimension	154mm(H)×60mm(W)×109mm(D)
Weight	1056g

Order information

Model	Description	Ethernet Port		
		10/100BaseT(X)	10/100/1000BaseT(X)	100/1000BaseSFP
GIE5010-10T	10-port Managed	6	4	
GIE5010-8T-2SFP	10-port Managed	8		2
GIE5010-6T-4SFP	10-port Managed	6		4
GIE5010-10GT	10-port Gigabit Managed		10	
GIE5010-8GT-2SFP	10-port Gigabit Managed		8	2
GIE5010-6GT-4SFP	10-port Gigabit Managed		6	4

GIE5012

- 12 port managed Industrial Ethernet Switch，All RJ45 port with Electrostatic Discharge function

- LACP / STP / RSTP / MSTP，Private G-Ring<5ms, quick Ring fail-over protection

- Static routing, support the communication between different vlans

- Support Muti-Single Ring ／Ring Coupling / Dual Homing / Chain / Balancing Chain

- LLDP / NTP / DHCP / IPv6 / QoS（SPQ, WRR, SPQ + WRR）

- ACL，MVR (Multicast VLAN Registration) / IGMP

- CLI / Web / Telnet, SNMP / RMON，IEEE 802.1X / RADIUS / TACACS+ / AAA / SSH / HTTPS

- Port-based /tag-based VLAN, IEEE 802.1ad/QinQ VLAN, Add/remove VLAN tags，PVLAN，Voice VLAN

- Support EtherNet/IP，ProfiNet，MODBUS TCP industrial protocol

- Certification compliance : CE FC

Switch Model	GIE5012
Ethernet	
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	8K
Jumbo frames	9K Bytes
Copper RJ45 Ports	
Speed	FE 10/100 Mbps, GE 10/100/1000 Mbps
MDI/MDIX	Auto-crossover
auto-negotiation	Yes
SFP (pluggable) Ports	
Port	100/1000BaseSFP slot
Fiber port connector	LC typically for fiber (depends on module)
Network Redundancy	
Fast failover ring	G-Ring, Link loss recovery < 5ms
Ring Protocol	G-Ring、Muti-Single Ring、Ring Coupling、Dual Homing / Chain / Balancing Chain
Spanning Tree Protocol	IEEE 802.1D STP，IEEE 802.1w RSTP，IEEE 802.1s MSTP
Port Trunk with LACP	Static trunk or Dynamic via LACP (Link Aggregation Control Protocol)
Bridge, VLANs & Protocols	
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)
Max VLANs	256
VLAN Types	Port-based / MAC / tag VLAN，IEEE 802.1Q VLAN，IEEE 802.1ad / QinQ VLAN，PVLAN，Voice VLAN
Multicast protocols	IGMP v1,v2,v3 with up to 255 multicast groups，IGMP snooping and querying
	Immediate leave and leave proxy, MVR (Multicast VLAN Registration)，Throttling and filtering

LLDP	IEEE 802.1ab Link layer Discovery Protocol (LLDP)
Traffic management & QoS	
ACL	Policy/profile-based Access Control List，Multi-layer L2/L3/L4 ACL Access Control
Queues per port	8
QoS	SPQ, WRR, SPQ + WRR
Traffic Shaper	Port-based shaping
Security	
Port security	IP and MAC-based access control, IEEE 802.1X authentication Network Access Control
Storm Control	Multicast/Broadcast/Flooding Storm Control
Management	
User Management	CLI / WEB / Telnet，SNMP v1/v2c/v3
Management Security	HTTPs / SSH / Radius Client / TACACS+
Upgrade & Restore	TFTP/FTP for Configuration Import/Export, TFTP/FTP for Firmware Upgrade
Diagnostic	Syslog、Per VLAN mirroring、Ethernet Copper connection diagnostic tool
MIBs	RFC 1757 RMON 1,2,3,9；RFC 2674 Q-Bridge MIB RFC-1213 MIB-II；RFC-1493 Bridge MIB；RFC 2233 IF MIB
DHCP	Yes
NTP/SNTP	Yes
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	12 ~ 58VDC
Current	337.5mA @ DC24V
Power consumption	Max. 8.1 Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link/Speed
Environmental and Compliances	
Operating temp.	-40 ~ 75°C
Storage temp.	-40 ~ 85°C
Humidity	5 ~ 95%RH (non-condensing)
Vibration, shock	IEC60068-2-6；IEC60068-2-27；IEC60068-2-32
Certification	CE, FCC
Electrical safety	CE
EMC	FCC Part15,CISPR 22(EN55022) ClassA, IEC61000-4-2,-3,-4,-5,-6(Level 3)
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>50 years

Mechanical	
Ingress protection	IP40
Installation option	DIN-Rail mounting, Wall mounting
Dimension	154mm(H)×60mm(W)×109mm(D)
Weight	1056g

Order information

Model	Description	Ethernet Port		
		10/100BaseT(X)	10/100/1000BaseT(X)	100/1000BaseSFP
GIE5012-8T-4SFP	12-port Managed	8		4
GIE5012-8GT-4SFP	12-port Gigabit Managed		8	4

GIE5014

- 14 port managed Industrial Ethernet Switch，All RJ45 port with Electrostatic Discharge function

- LACP / STP / RSTP / MSTP，Private G-Ring<5ms, quick Ring fail-over protection

- Static routing, support the communication between different vlans

- Support Muti-Single Ring / Ring Coupling / Dual Homing / Chain / Balancing Chain

- LLDP / NTP / DHCP / IPv6 / QoS（SPQ, WRR, SPQ + WRR）

- ACL，MVR (Multicast VLAN Registration) / IGMP

- CLI / Web / Telnet, SNMP / RMON，IEEE 802.1X / RADIUS / TACACS+ / AAA / SSH / HTTPS

- Port-based /tag-based VLAN, IEEE 802.1ad/QinQ VLAN, Add/remove VLAN tags，PVLAN，Voice VLAN

- Support EtherNet/IP，ProfiNet，MODBUS TCP industrial protocol

- Certification compliance：CE FCC

Switch Model	GIE5014
Ethernet	
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	8K
Jumbo frames	9K Bytes
Copper RJ45 Ports	
Speed	FE 10/100 Mbps, GE 10/100/1000 Mbps
MDI/MDIX	Auto-crossover
auto-negotiation	Yes
SFP (pluggable) Ports	
Port	100/1000BaseSFP slot
Fiber port connector	LC typically for fiber (depends on module)
Network Redundancy	
Fast failover ring	G-Ring, Link loss recovery < 5ms
Ring Protocol	G-Ring、Muti-Single Ring、Ring Coupling、Dual Homing / Chain / Balancing Chain
Spanning Tree Protocol	IEEE 802.1D STP，IEEE 802.1w RSTP，IEEE 802.1s MSTP
Port Trunk with LACP	Static trunk or Dynamic via LACP (Link Aggregation Control Protocol)
Bridge, VLANs & Protocols	
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)
Max VLANs	256
VLAN Types	Port-based / MAC / tag VLAN，IEEE 802.1Q VLAN，IEEE 802.1ad / QinQ VLAN，PVLAN，Voice VLAN
Multicast protocols	IGMP v1,v2,v3 with up to 255 multicast groups，IGMP snooping and querying
	Immediate leave and leave proxy, MVR (Multicast VLAN Registration)，Throttling and filtering

LLDP	IEEE 802.1ab Link layer Discovery Protocol (LLDP)
Traffic management & QoS	
ACL	Policy/profile-based Access Control List，Multi-layer L2/L3/L4 ACL Access Control
Queues per port	8
QoS	SPQ, WRR, SPQ + WRR
Traffic Shaper	Port-based shaping
Security	
Port security	IP and MAC-based access control, IEEE 802.1X authentication Network Access Control
Storm Control	Multicast/Broadcast/Flooding Storm Control
Management	
User Management	CLI / WEB / Telnet，SNMP v1/v2c/v3
Management Security	HTTPs / SSH / Radius Client / TACACS+
Upgrade & Restore	TFTP/FTP for Configuration Import/Export, TFTP/FTP for Firmware Upgrade
Diagnostic	Syslog、Per VLAN mirroring、Ethernet Copper connection diagnostic tool
MIBs	RFC 1757 RMON 1,2,3,9；RFC 2674 Q-Bridge MIB RFC-1213 MIB-II；RFC-1493 Bridge MIB；RFC 2233 IF MIB
DHCP	Yes
NTP/SNTP	Yes
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	12 ~ 58VDC
Current	450mA @ DC24V
Power consumption	Max. 10.8 Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link/Speed
Environmental and Compliances	
Operating temp.	-40 ~ 75°C
Storage temp.	-40 ~ 85°C
Humidity	5 ~ 95%RH (non-condensing)
Vibration, shock	IEC60068-2-6；IEC60068-2-27；IEC60068-2-32
Certification	CE, FCC
Electrical safety	CE
EMC	FCC Part15,CISPR 22(EN55022) ClassA, IEC61000-4-2,-3,-4,-5,-6(Level 3)
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>50 years

Mechanical	
Ingress protection	IP40
Installation option	DIN-Rail mounting, Wall mounting
Dimension	154mm(H)×60mm(W)×109mm(D)
Weight	1056g

Order information

Model	Description	Ethernet Port		
		10/100BaseT(X)	10/100/1000BaseT(X)	100/1000BaseSFP
GIE5014-10T-4SFP	14-port Managed	10		4
GIE5014-10GT-4SFP	14-port Gigabit Managed		10	4

GIE5128

- 28 port managed Industrial Ethernet Switch，All RJ45 port with Electrostatic Discharge function

- LACP / STP / RSTP / MSTP，Private G-Ring<5ms, quick Ring fail-over protection

- Support Muti-Single Ring / Ring Coupling / Dual Homing / Chain / Balancing Chain

- Static routing, support the communication between different vlans

- LLDP / NTP / DHCP / IPv6 / QoS (SPQ, WRR, SPQ + WRR)

- ACL，MVR (Multicast VLAN Registration) / IGMP

- CLI / Web / Telnet, SNMP / RMON，IEEE 802.1X / RADIUS / TACACS+ / AAA / SSH / HTTPS

- Port-based /tag-based VLAN, IEEE 802.1ad/QinQ VLAN, Add/remove VLAN tags，PVLAN，Voice VLAN

- Support EtherNet/IP，ProfiNet，MODBUS TCP industrial protocol

- Certification compliance : CE FC

Switch Model	GIE5128
Ethernet	
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	8K
Jumbo frames	9K Bytes
Copper RJ45 Ports	
Speed	GE 10/100/1000 Mbps
MDI/MDIX	Auto-crossover
auto-negotiation	Yes
SFP (pluggable) Ports	
Port	100/1000BaseSFP slot
Fiber port connector	LC typically for fiber (depends on module)
Network Redundancy	
Fast failover ring	G-Ring, Link loss recovery < 5ms
Ring Protocol	G-Ring、Muti-Single Ring、Ring Coupling、Dual Homing / Chain / Balancing Chain
Spanning Tree Protocol	IEEE 802.1D STP，IEEE 802.1w RSTP，IEEE 802.1s MSTP
Port Trunk with LACP	Static trunk or Dynamic via LACP (Link Aggregation Control Protocol)
Bridge, VLANs & Protocols	
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)
Max VLANs	2048
VLAN Types	Port-based / MAC / tag VLAN，IEEE 802.1Q VLAN，IEEE 802.1ad / QinQ VLAN，PVLAN，Voice VLAN
Multicast protocols	IGMP v1,v2,v3 with up to 512 multicast groups，IGMP snooping and querying
	Immediate leave and leave proxy, MVR (Multicast VLAN Registration)，Throttling and filtering

LLDP	IEEE 802.1ab Link layer Discovery Protocol (LLDP)
Traffic management & QoS	
ACL	Policy/profile-based Access Control List，Multi-layer L2/L3/L4 ACL Access Control
Queues per port	8
QoS	SPQ, WRR, SPQ + WRR
Traffic Shaper	Port-based shaping
Security	
Port security	IP and MAC-based access control, IEEE 802.1X authentication Network Access Control
Storm Control	Multicast/Broadcast/Flooding Storm Control
Management	
User Management	CLI / WEB / Telnet，SNMP v1/v2c/v3
Management Security	HTTPs / SSH / Radius Client / TACACS+
Upgrade & Restore	TFTP/FTP for Configuration Import/Export, TFTP/FTP for Firmware Upgrade
Diagnostic	Syslog、Per VLAN mirroring、Ethernet Copper connection diagnostic tool
MIBs	RFC 1757 RMON 1,2,3,9；RFC 2674 Q-Bridge MIB RFC-1213 MIB-II；RFC-1493 Bridge MIB；RFC 2233 IF MIB
DHCP	Yes
NTP/SNTP	Yes
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	AC：100 ~ 240VAC，50Hz-60Hz
Current	AC：114.5mA @ AC220V
Power consumption	AC：Max. 25.2 Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link/Speed
Environmental and Compliances	
Operating temp.	-40 ~ 75°C
Storage temp.	-40 ~ 85°C
Humidity	5 ~ 95%RH (non-condensing)
Vibration, shock	IEC60068-2-6；IEC60068-2-27；IEC60068-2-32
Certification	CE, FCC
Electrical safety	CE
EMC	FCC Part15,CISPR 22(EN55022) ClassA, IEC61000-4-2,-3,-4,-5,-6(Level 3)
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>50 years

Mechanical	
Ingress protection	IP40
Installation option	19'' rack mounting
Dimension	440mm(W)×44mm(H)×253mm(D)
Weight	3000g

Order information

Model	Description	Ethernet Port	
		10/100/1000BaseT(X)	100/1000BaseSFP
GIE5128-24GT-4SFP	28-port Gigabit Managed	24	4

GIE8010

- 10 port L3 managed Industrial Ethernet Switch，All RJ45 port with Electrostatic Discharge function

- Static routing、RIPv1/v2、OSPF，VRRP

- LACP / STP / RSTP / MSTP，Private G-Ring<5ms, quick Ring fail-over protection

- Support Muti-Single Ring / Ring Coupling / Dual Homing / Chain / Balancing Chain

- LLDP / NTP / DHCP / IPv6 / QoS（SPQ, WRR, SPQ + WRR）

- ACL，MVR (Multicast VLAN Registration) / IGMP

- CLI / Web / Telnet, SNMP / RMON，IEEE 802.1X / RADIUS / TACACS+ / AAA / SSH / HTTPS

- Port-based /tag-based VLAN, IEEE 802.1ad/QinQ VLAN, Add/remove VLAN tags，PVLAN，Voice VLAN

- Support EtherNet/IP，ProfiNet，MODBUS TCP industrial protocol

- Certification compliance： CE FC

Switch Model	GIE8010
Ethernet	
L3 routing	Static routing, RIPv1/RIPv2, OSPF,VRRP
Ethernet Interface	6 RJ45 + 2 SFP + 2 COMBO
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	8K
Jumbo frames	9K Bytes
Copper RJ45 Ports	
Speed	GE 10/100/1000 Mbps
MDI/MDIX	Auto-crossover
auto-negotiation	Yes
SFP (pluggable) Ports	
Port	100/1000BaseSFP slot
Fiber port connector	LC typically for fiber (depends on module)
Network Redundancy	
Fast failover ring	G-Ring, Link loss recovery < 5ms
Ring Protocol	G-Ring、Muti-Single Ring、Ring Coupling、Dual Homing / Chain / Balancing Chain
Spanning Tree Protocol	IEEE 802.1D STP，IEEE 802.1w RSTP，IEEE 802.1s MSTP
Port Trunk with LACP	Static trunk or Dynamic via LACP (Link Aggregation Control Protocol)
Bridge, VLANs & Protocols	
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)
Max VLANs	2048
VLAN Types	Port-based / MAC / tag VLAN，IEEE 802.1Q VLAN，IEEE 802.1ad / QinQ VLAN，PVLAN，Voice VLAN

VLAN operations	Attach / Remove / Replacement VLAN tag
MVR	MVR (Multicast VLAN Registration)
Multicast protocols	IGMP v1,v2,v3 with up to 256 multicast groups , IGMP snooping and querying Immediate leave and leave proxy, MVR (Multicast VLAN Registration) , Throttling and filtering
LLDP	IEEE 802.1ab Link layer Discovery Protocol (LLDP)
Traffic management & QoS	
ACL	Policy/profile-based Access Control List , Multi-layer L2/L3/L4 ACL Access Control
Queues per port	8
QoS	SPQ, WRR, SPQ + WRR
Traffic Shaper	Hierarchical per port and per queue shaping & scheduling with bandwidth management
Traffic Policer	Ingress rate limit in 1K bps granularity
Security	
Port security	IP and MAC-based Access control , Policy-based Access control IEEE 802.1x authentication Network Access Control , RADIUS / TACACS+ / AAA
Storm Control	Multicast/Broadcast/Flooding Storm Control
Management	
User Management	CLI / WEB / Telnet , SNMP v1/v2c/v3
Management Security	HTTPs / SSH / Radius Client / TACACS+
Upgrade & Restore	TFTP/FTP for Configuration Import/Export, TFTP/FTP for Firmware Upgrade
Diagnostic	Syslog、Per VLAN mirroring、Ethernet Copper connection diagnostic tool
MIBs	RFC 1757 RMON 1,2,3,9；RFC 2674 Q-Bridge MIB RFC-1213 MIB-II；RFC-1493 Bridge MIB；RFC 2233 IF MIB
DHCP	Yes
NTP/SNTP	Yes
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	12 ~ 58VDC
Current	479.2mA @ DC24V
Power consumption	Max. 11.5 Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link/Speed
Environmental and Compliances	
Operating temp.	-40 ~ 75°C
Storage temp.	-40 ~ 85°C
Humidity	5 ~ 95%RH (non-condensing)

Vibration, shock	IEC60068-2-6 ; IEC60068-2-27 ; IEC60068-2-32
Electrical safety	CE
EMI	Radiated Emission: CISPR 22, EN55022 Class B Conducted Emission: EN55022 Class B
EMS	ESD: IEC61000-4-2 EFT: IEC61000-4-4 Surge: IEC61000-4-5 Radiated RF (RS): IEC61000-4-3 Conducted RF (CS): IEC61000-4-6
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>30 years
Mechanical	
Ingress protection	IP40
Installation option	DIN-Rail mounting, Wall mounting
Dimension	152mm(H)×60mm(W)×132.8mm(D)
Weight	1230 g

Order information

Model	Description	Ethernet Port		
		10/100/1000BaseT(X)	100/1000BaseSFP	RJ45/SFP COMBO
GIE8010-6GT-2SFP-2C	10-port Gigabit L3 Managed	6	2	2

GIE8128

- 28 port L3 managed Industrial Ethernet Switch，All RJ45 port with Electrostatic Discharge function

- Static routing、RIPv1/v2、OSPF，VRRP

- LACP / STP / RSTP / MSTP，Private G-Ring<5ms, quick Ring fail-over protection

- Support Muti-Single Ring / Ring Coupling / Dual Homing / Chain / Balancing Chain

- LLDP / NTP / DHCP / IPv6 / QoS (SPQ, WRR, SPQ + WRR)

- ACL，MVR (Multicast VLAN Registration) / IGMP

- Support EtherNet/IP，ProfiNet，MODBUS TCP industrial protocol

- Port-based /tag-based VLAN, IEEE 802.1ad/QinQ VLAN, Add/remove VLAN tags，PVLAN，Voice VLAN

- CLI / Web / Telnet, SNMP / RMON，IEEE 802.1X / RADIUS / TACACS+ / AAA / SSH / HTTPS

- Certification compliance : CE FC

Switch Model	GIE8128
Ethernet	
L3 routing	Static routing, RIPv1/RIPv2, OSPF,VRRP
Ethernet Interface	24 RJ45 + 4 SFP
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	8K
Jumbo frames	9K Bytes
Copper RJ45 Ports	
Speed	GE 10/100/1000 Mbps
MDI/MDIX	Auto-crossover
auto-negotiation	Yes
SFP (pluggable) Ports	
Port	100/1000BaseSFP slot
Fiber port connector	LC typically for fiber (depends on module)
Network Redundancy	
Fast failover ring	G-Ring, Link loss recovery < 5ms
Ring Protocol	G-Ring、Muti-Single Ring、Ring Coupling、Dual Homing / Chain / Balancing Chain
Spanning Tree Protocol	IEEE 802.1D STP，IEEE 802.1w RSTP，IEEE 802.1s MSTP
Port Trunk with LACP	Static trunk or Dynamic via LACP (Link Aggregation Control Protocol)
Bridge, VLANs & Protocols	
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)
Max VLANs	2048
VLAN Types	Port-based / MAC / tag VLAN，IEEE 802.1Q VLAN，IEEE 802.1ad / QinQ VLAN，PVLAN，Voice VLAN

VLAN operations	Attach / Remove / Replacement VLAN tag
MVR	MVR (Multicast VLAN Registration)
Multicast protocols	IGMP v1,v2,v3 with up to 256 multicast groups，IGMP snooping and querying Immediate leave and leave proxy, MVR (Multicast VLAN Registration)，Throttling and filtering
LLDP	IEEE 802.1ab Link layer Discovery Protocol (LLDP)
Traffic management & QoS	
ACL	Policy/profile-based Access Control List，Multi-layer L2/L3/L4 ACL Access Control
Queues per port	8
QoS	SPQ, WRR, SPQ + WRR
Traffic Shaper	Hierarchical per port and per queue shaping & scheduling with bandwidth management
Traffic Policer	Ingress rate limit in 1K bps granularity
Security	
Port security	IP and MAC-based Access control，Policy-based Access control IEEE 802.1x authentication Network Access Control，RADIUS / TACACS+ / AAA
Storm Control	Multicast/Broadcast/Flooding Storm Control
Management	
User Management	CLI / WEB / Telnet，SNMP v1/v2c/v3
Management Security	HTTPs / SSH / Radius Client / TACACS+
Upgrade & Restore	TFTP/FTP for Configuration Import/Export, TFTP/FTP for Firmware Upgrade
Diagnostic	Syslog、Per VLAN mirroring、Ethernet Copper connection diagnostic tool
MIBs	RFC 1757 RMON 1,2,3,9；RFC 2674 Q-Bridge MIB RFC-1213 MIB-II；RFC-1493 Bridge MIB；RFC 2233 IF MIB
DHCP	Yes
NTP/SNTP	Yes
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	AC：100 ~ 240VAC，50Hz-60Hz
Current	AC：114.5mA @ AC220V
Power consumption	AC：Max. 25.2 Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link/Speed
Environmental and Compliances	
Operating temp.	-40 ~ 75°C
Storage temp.	-40 ~ 85°C
Humidity	5 ~ 95%RH (non-condensing)

Vibration, shock	IEC60068-2-6；IEC60068-2-27；IEC60068-2-32
Electrical safety	CE
EMI	Radiated Emission: CISPR 22, EN55022 Class B
	Conducted Emission: EN55022 Class B
EMS	ESD: IEC61000-4-2　　　EFT: IEC61000-4-4　　　Surge: IEC61000-4-5
	Radiated RF (RS): IEC61000-4-3　　　Conducted RF (CS): IEC61000-4-6
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>30 years
Mechanical	
Ingress protection	IP40
Installation option	19'' rack mounting
Dimension	440mm(W)×44mm(H)×253mm(D)
Weight	3000g

Order information

Model	Description	Ethernet Port	
		10/100/1000BaseT(X)	100/1000BaseSFP
GIE8128-24GT-4SFP	28-port Gigabit L3 Managed	24	4

GIE1002

- 2 port Industrial Media Converter, L2 wire-speed

- Support LFPT（Link Fault Pass-Through）function

- 1K MAC addresses

- Enable/Disable broadcast storm protection

- All RJ45 port with Electrostatic Discharge（ESD）function

- 12-48VDC Input voltage, Redundant Input Terminal, Reverse power protection

- Fan-less design, Wide Operating Temperature Range (-40 to +75°C)

- Certification compliance : CE FC

Switch Model	GIE1002
Ethernet	
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	1K
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
LFPT	Support LFPT（Link Fault Pass-Through）function
DIP switches	DIP1：Enable/Disable LFPT function
Copper RJ45 Ports	10/100 Mbps speed auto-negotiation, MDI/MDIX Auto-crossover
Fiber port	100BaseFX ports，SC connector, multi-mode or single-mode
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	12 ~ 48VDC
Current	91.6mA @ DC24V
Power consumption	Max. 2.2Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link/Speed
Environmental and Compliances	
Operating temp.	-10 ~ 60°C
Storage temp.	-40 ~ 85°C
Humidity	5 to 95% RH (non-condensing)
Vibration, shock	IEC60068-2-6,-27,-32
Certification	CE, FCC

EMC	FCC Part15,CISPR 22(EN55022) ClassA, IEC61000-4-2,-3,-4,-5,-6(Level 3)
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>50 years
Mechanical	
Ingress protection	IP40
Installation option	DIN-Rail mounting
Dimension	95mm(H)×26.1mm(W)×70mm(D)
Weight	218g

Order information

Model	Description	Ethernet Port		
		10/100BaseT(X)	100FX (SC connector)	
		Port #	Multi-Mode (2km)	Single-Mode (30km)
GIE1002-T-M	2-port Media Converter	1	1	
GIE1002-T-S	2-port Media Converter	1		1

GIE1003

- 3 port Industrial Media Converter, L2 wire-speed

- Support LFPT（Link Fault Pass-Through）function

- 1K MAC addresses

- Enable/Disable broadcast storm protection

- All RJ45 port with Electrostatic Discharge（ESD）function

- 12-58VDC Input voltage, Redundant Input Terminal, Reverse power protection

- Fan-less design, Wide Operating Temperature Range (-40 to +75℃)

- Certification compliance : CE FC

Switch Model	GIE1003
Ethernet	
Operating mode	Store and forward, wire-speed/non-blocking switching engine
MAC addresses	1K
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
LFPT	Support LFPT（Link Fault Pass-Through）function
DIP switches	Enable/Disable broadcast storm protection, Enable/Disable Power Alarm
Copper RJ45 Ports	10/100 Mbps speed auto-negotiation, MDI/MDIX Auto-crossover
Fiber port	100BaseFX ports (LC connector, multi-mode or single-mode)
Power	
Power input	Redundant Input Terminal; Reverse power protection
Input voltage range	12 ~ 58VDC
Current	116.6mA @ DC24V
Power consumption	Max. 2.8Watts
Indicators	
Power Status	Indication of power input status
Ethernet port status	Link/Speed
Environmental and Compliances	
Operating temp.	-40 ~ 75℃
Storage temp.	-40 ~ 85℃
Humidity	5 to 95% RH (non-condensing)
Vibration, shock	IEC60068-2-6,-27,-32
Certification	CE, FCC

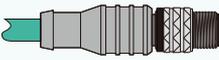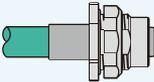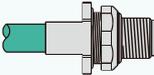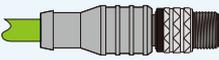| EMC	FCC Part15,CISPR 22(EN55022) ClassA, IEC61000-4-2,-3,-4,-5,-6(Level 3)
RoHS, WEEE	RoHS (Pb free) and WEEE compliant
MTBF	>50 years
Mechanical	
Ingress protection	IP40
Installation option	DIN-Rail mounting, Wall mounting
Dimension	109.2mm(H)×29.1mm(W)×89.4mm(D)
Weight	290g

Order information

Model	Description	Ethernet Port		
		10/100BaseT(X)	100FX (LC connector)	
		Port #	Multi-Mode (2km)	Single-Mode (40km)
GIE1003-2T-LC2	3-port Media Converter	2	1	
GIE1003-2T-LC40	3-port Media Converter	2		1

SFP Fiber Transceiver

Style	Model	Description
	GSFP-SX-MM-0102I	Multi-mode 100Mbps 2km Fiber Transceiver, -40~85°C
	GSFP-LX-SM-0130I	Single mode 100Mbps 30km Fiber Transceiver , -40~85°C
	GSFP-LHX-SM-0160I	Single mode 100Mbps 60km Fiber Transceiver , -40~85°C
	GSFP-LHX-SM-0180I	Single mode 100Mbps 80km Fiber Transceiver , -40~85°C
	GSFP-ZX-SM-01100I	Single mode 100Mbps 100km Fiber Transceiver , -40~85°C
	GSFP-ZX-SM-01120I	Single mode 100Mbps 120km Fiber Transceiver , -40~85°C
	GSFP-SX-MM-02005I	Multi-mode 1000Mbps 550m Fiber Transceiver, -40~85°C
	GSFP-SX-MM-0202I	Multi-mode 1000Mbps 2km Fiber Transceiver, -40~85°C
	GSFP-LX-SM-0210I	Single mode 1000Mbps 10km Fiber Transceiver , -40~85°C
	GSFP-LX-SM-0230I	Single mode 1000Mbps 30km Fiber Transceiver , -40~85°C
	GSFP-LHX-SM-0250I	Single mode 1000Mbps 50km Fiber Transceiver , -40~85°C
	GSFP-LHX-SM-0270I	Single mode 1000Mbps 70km Fiber Transceiver , -40~85°C
	GSFP-ZX-SM-02120I	Single mode 1000Mbps 120km Fiber Transceiver , -40~85°C

Power

Style	Model	Description
	MPU120-48S	120W, Input 90V~132V or 180V~264V , Output 48VDC, output current 2.5A
	MPU120-24S	120W, Input 90V~132V or 180V~264V , Output 24VDC, output current 5A
	MPU120-12S	120W, Input 90V~132V or 180V~264V , Output 12VDC, output current 10A
	MPU240-48S	240W, Input 90V~132V or 180V~264V , Output 48VDC , output current 5A
	MPU240-24S	240W, Input 90V~132V or 180V~264V , Output 24VDC , output current 10A
	MPU300-48S	300W, Input 90V~132V or 180V~264V , Output 48VDC , output current 6.25A
	MPU300-24S	300W, Input 90V~132V or 180V~264V , Output 24VDC , output current 12.5A
	MPU480-48S	480W, Input 90V~264V , Output 48VDC , output current 10A
	MPU480-24S	480W, Input 90V~264V , Output 24VDC , output current 20A

Industrial Ethernet Cable

Style	Model	Description
	CS082491-*M	EtherNet/IP、 MODBUS TCP, 8*0.25mm^2 , Foil / Braid
	CS042492-*M	EtherNet/IP、 MODBUS TCP, 4*0.25mm^2 , Foil / Braid
	CS042290-*M	PROFINET, 4*0.34mm^2 , Foil / Braid
	EIK8-*M/E41 EIK4-*M/F41	M12 Pre-moulding Straight Female , EtherNet/IP、 MODBUS TCP, 8 pin M12 Pre-moulding Straight Female , EtherNet/IP、 MODBUS TCP, 4 pin
	EIZ8-*M/E41 EIZ4-*M/F41	M12 Pre-moulding Straight Male , EtherNet/IP、 MODBUS TCP, 8 pin M12 Pre-moulding Straight Male , EtherNet/IP、 MODBUS TCP, 4 pin
	FEIK81-*M/E41 FEIK41-*M/F41	M12 Receptacle Female , EtherNet/IP、 MODBUS TCP, 8 pin M12 Receptacle Female , EtherNet/IP、 MODBUS TCP, 4 pin
	FEIZ81-*M/E41 FEIZ41-*M/F41	M12 Receptacle Male , EtherNet/IP、 MODBUS TCP, 8 pin M12 Receptacle Male , EtherNet/IP、 MODBUS TCP, 4 pin
	RJ45S-*M/E41 RJ45S-*M/F41	RJ45 Straight , EtherNet/IP、 MODBUS TCP, 8 pin RJ45 Straight , EtherNet/IP、 MODBUS TCP, 4 pin
	EIK4-*M/F21	M12 Pre-moulding Straight Female , PROFINET, 4 pin
	EIZ4-*M/F21	M12 Pre-moulding Straight Male , PROFINET, 4 pin
	FEIK41-*M/F21	M12 Receptacle Female , PROFINET, 4 pin
	FEIZ41-*M/F21	M12 Receptacle Male , PROFINET, 4 pin
	RJ45-*M/F21	RJ45 Straight , PROFINET, 4 pin
	EK4238-0/9 EK8218-0/9	M12 Straight Female, 4 pin M12 Straight Female, 8 pin
	EZ4238-0/9 EZ8218-0/9	M12 Straight Male, 4 pin M12 Straight Male, 8 pin
	RJ45/HM	RJ45 Field Wireable metal connectors, 4 pin
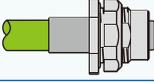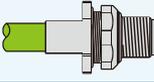
* Standard cable lengths are 2/5/10M, Consult factory for other lengths
  The naming rule of double-ended connector is male afte female , flange after pre-cast ,angles after straight
  For example : FEIK4 RJ45S-1M/F41

G-Ring：GSEE-TECH Private Ring Protocol

STP：Spanning Tree Protocol

RSTP：Rapid spanning Tree Protocol

MSTP：Multiple Spanning Tree Protocol

SC、ST、LC：Fiber connector

SFP：Small Form-factor Pluggables, convert electrical signals into fiber signals

MM/SM：Multi-mode / Single mode

IPv6：Internet Protocol Version 6

MAC：Medium/Media Access Control

MDI/MDIX：Medium Dependent Interface/Medium Dependent Interface cross-over

LLDP：IEEE 802.1ab , Link Layer Discovery Protocol

LACP：IEEE802.3ad，Link Aggregation Control Protocol

VLAN：Virtual Local Area Network

IGMP：Internet Group Management Protocol

MVR：Multicast VLAN Registration

RIPv1 v2 / OSPF / VRRP：Routing Information Protocol v1 v2 / Open Shortest Path First / Virtual Router Redundancy Protocol

RoHS / WEEE：Restriction of Hazardous Substances / Waste Electrical and Electronic Equipment

NTP / SNTP：Network Time Protocol / Simple Network Time Protocol

PoE：Power Over Ethernet

QoS：Quality of Service, a kind of network security mechanism

CLI：Command-Line Interface

WEB：WEB Access Interface

Telnet：Internet remote login service standard protocols

SNMP：Simple Network Management Protocol

MIB：Management Information Base

HTTPS：Hyper Text Transfer Protocol over Secure Socket Layer

SSH：Secure Shell

TACACS+：Terminal Access Controller Access Control System

RADIUS：Remote Authentication Dial In User Service

DHCP：Dynamic Host Configuration Protocol

EMC：Electro Magnetic Compatibility

EMI：Electro Magnetic Interference

EMS：Electro Magnetic Susceptibility

MTBF：Mean Time Between Failure

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