2.25KV Hipot **4KV Surge protection**



IGS-804SM-SE

8x 10/100/1000Base-T + 4x 100/1000Base-X SFP with SyncE

IGS-1608SM-SE

16x 10/100/1000Base-T + 8x 100/1000Base-X SFP with SyncE













These models are managed industrial grade Gigabit switches with 8/16 10/100/1000Base-T ports and 4/8 Gigabit/Fast SFP ports that provide stable and reliable Ethernet transmission. They also support timing synchronization features (SyncE & IEEE 1588 PTP v2) that allow operators to deliver services with optimal stability and continuity in end to end connectivity. SyncE and IEEE1588 PTP V2 are also increasingly applied in mobile backhaul application where many devices are placed in outdoor cabinets. The switches support a variety of Ethernet functions, including STP/RSTP/MSTP/ITU-T G.8032 ERPS and multiple μ-Ring for redundant cabling, layer 2 Ethernet IGMP, VLAN, QoS, Security, IPv6, bandwidth control, port mirroring, cable diagnostic and Green Ethernet. Housed in rugged DIN rail or wall mountable enclosures, these switches are designed for harsh environments, such as industrial networks, security automation applications, intelligent transportation systems (ITS) and are also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications (See Figure). Standard operating temperature range models (-10 to 60°C) and wide operating temperature range models (-40 to 75°C) fulfill the special needs of industrial automation applications.

Features

- 8x 10/100/1000Base-T RJ-45 and 4x 100/1000Base-X SFP Fiber with SyncE (IGS-804SM-SE)
- 16x 10/100/1000Base-T RJ-45 and 8x 100/1000Base-X SFP Fiber with SyncE (IGS-1608SM-SE)
- Redundant dual DC input power 12/24/48VDC (9.6~60VDC)

Isolated RS-232 console port

- UL60950-1, EN60950-1, CE, FCC, Rail Traffic EN50121-4, certified
- Heavy industrial grade EMS, EMI, EN61000-6-2, EN61000-6-4 certified
- 2.25K VDC Hi-pot isolation protection for Ethernet ports and power
- 4KV surge protection for UTP and Fiber ports
- Cable diagnostic, Measuring cable normal or broken point distance
- Rugged Metal, IP30 Protection & Fanless design
- Supports Green Ethernet IEEE 802.3az EEE (Energy Efficient Ethernet) management to optimize the power Consumption
- STP, RSTP, MSTP, ITU-T G.8032 Ethernet Ring Protection Switching (ERPS) for redundant cabling
- Provides 5 instances that each can support μ-Ring, μ-Chain or Sub-Ring type for flexible uses. (Please see CTC µ-Ring white paper for more details and more topology application)
- μ-Ring for Redundant Cabling, recovery time<10ms in 250 devices
- DHCP Server/Client/Relay /Relay option 82 /Snooping
- QoS, Traffic classification QoS, CoS, bandwidth control for Ingress and Egress, Storm Control, DiffServ
- IEEE 802.1q VLAN, MAC based VLAN, IP subnet based VLAN, Protocol based VLAN, VLAN translation, GVRP, MVR
- Dynamic IEEE 802.3ad LACP Link Aggregation, Static Link Aggregation
- IGMP snooping V1/V2/V3, IGMP Filtering/Throttling, IGMP query, IGMP proxy reporting, MLD snooping V1/V2
- Security: Port based and MAC based IEEE 802.1X, RADIUS, ACL, TACACS+, HTTP/HTTPS, SSL/SSH v2
- Software upgrade via TFTP and HTTP, redundant firmware to avoid in case of upgrade failure
- Supports Sync Ethernet allow operators to deliver service with optimal stability and continuity in end-to-end connectivity
- Supports IEEE 1588 PTP V2 for precise time synchronization to operate in Ordinary-Boundary, Peer to Peer Transparent Clock, End to End Transparent Clock, Master, Slave mode by each port
- RMON, MIB II, Port mirroring, Event syslog, DNS, NTP, SNTP, IEEE 802.1ab LLDP
- Supports IPv6 Telnet server /ICMP v6
- CLI, Web based management, SNMP v1/v2c/v3, Telnet/SSH server for management
- Provides SmartConfig for quick and easy mass Configuration Tool*
- Supports SmartView for Centralized Management*
- *Please see Chapter 1- **Software Management** for more details

Specifications

Standard	IEEE 802.3	10Base-T 10Mbit/s Ethernet
	IEEE 802.3u	100Base-TX, 100Base-FX, Fast Ethernet
	IEEE 802.3ab	1000Base-T Gbit/s Ethernet over twisted pair
	IEEE 802.3z	1000Base-X Gbit/s Ethernet over Fiber-Optic
	IEEE 802.1d	STP (Spanning Tree Protocol)
	IEEE 802.1w	RSTP (Rapid Spanning Tree Protocol)
	IEEE 802.1s	MSTP (Multiple Spanning Tree Protocol)
	ITU-T G.8032 / Y.1344	ERPS (Ethernet Ring Protection Switching)
	IEEE 802.1Q	Virtual LANs (VLAN)
	IEEE 802.1X	Port based and MAC based Network Access Control, Authentication
	IEEE 802.3ac	Max frame size extended to 1522Bytes.

Standard	IEEE 802.3ad	Link aggregation for parallel links with LACP(Link Aggregation Control Protocol)
	IEEE 802.3x	Flow control for Full Duplex
	IEEE 802.1ad	Stacked VLANs, Q-in-Q
	IEEE 802.1p	LAN Layer 2 QoS/CoS Protocol for Traffic Prioritization
	IEEE 802.1ab	Link Layer Discovery Protocol (LLDP)
	IEEE 802.3az	EEE (Energy Efficient Ethernet)
VLAN ID	4094 IEEE 802	2.1Q VLAN VID
Switch Architecture	Back-plane (Sv 24Gbps (IGS-8 48Gbps (IGS-1 Full wire-spee	608SM-SÉ)
Data Processing	Store and For	ward

Retwork						
Connector (IGS-804SM-SE) 16x 10/100/1000Base-T RJ-45+ 8x 100/1000Base-X SFP connector (IGS-1604SM-SE) RJ-45 UTP port support Auto negotiation speed, Auto MDI/MDI-X function, SFP port support dual speed with DDMI Console RS-232 (RJ-45) Isolated RS-232 port grounding for negative power system, or telecom network application UTP/STP above Cat. 5e cable EIA/TIA-568 100-ohm (100m) Protocols CSMA/CD Reverse Polarity Protection Supported Overload Current Protection CPU Watch Dog Supported Power Supply Redundant Dual DC 12/24/48V (9.6~60VDC) Input power Removable Terminal Block for input power connector Power Consumption Input Voltage IGS-804SM-SE IGS-1608SM-SE 12 VDC 11W 17W 24 VDC 12.4W 17.8W 48 VDC 12.9W 20.2W LED Per unit: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) Per RJ-45 port: 10/100 Link/Active (Green) 1000 Link/Active (Green) Jumbo Frame 9.6KB IEEE 802.3ac Max frame size extended to 1522Bytes (allow Q-tag in packet) MAC Address Table 8K Memory Buffer S12K Bytes for packet buffer Warning Message System Syslog, SMTP/e-mail event message, alarm relay Alarm Relay Contact @24VDC Removable Provide 2 redundant power, alarm relay contact, 6 Pin Operating -10 ~ 60°C (IGS-804SM-SE, IGS-1608SM-SE)	Flow Control	half duplex mo	ode '	'		
Isolated RS-232 port grounding for negative power system, or telecom network application		connector (IGS-804SM-SE) 16x 10/100/1000Base-T RJ-45+ 8x 100/1000Base-X SFP connector (IGS-1604SM-SE) RJ-45 UTP port support Auto negotiation speed, Auto MDI/MDI-X function,				
FIA/TIA-568 100-ohm (100m)		Isolated RS-232 port grounding for negative power				
Protocols Reverse Polarity Protection Overload Current Protection CPU Watch Dog Redundant Dual DC 12/24/48V (9.6~60VDC) Input power Removable Terminal Block for input power connector Power Consumption Input Voltage IGS-804SM-SE IGS-1608SM-SE 12 VDC 11.W 17.W 24 VDC 12.4W 17.8W 48 VDC 12.9W 20.2W LED Per unit: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) Per RJ-45 port: 10/100 Link/Active (Green) 1000 Link/Active (Green) 9.6KB IEEE 802.3ac Max frame size extended to 1522Bytes (allow Q-tag in packet) MAC Address Table MAC Address Table 8K Memory Buffer Warning Message Alarm Relay Contact Relay outputs with current carrying capacity of 1 A @24VDC Removable Terminal Block Provide 2 redundant power, alarm relay contact, 6 Pin Operating Supported Suppo	Network Cable					
Reverse Polarity Protection Overload Current Protection CPU Watch Dog Power Supply Redundant Dual DC 12/24/48V (9.6~60VDC) Input power Removable Terminal Block for input power connector Power Consumption Input Voltage IGS-8045M-SE IGS-16085M-SE 12 VDC 11W 17W 24 VDC 12.4W 17.8W 48 VDC 12.9W 20.2W LED Per unit: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) Per RJ-45 port: 10/100 Link/Active (Green) 1000 Link/Active (Green) SFP Fiber Per port: Link/Active (Green) SFP Fiber Per port: Link/Active (Green) Jumbo Frame 9.6KB IEEE 802.3ac MAC Address Table MAC Address Table 8K Memory Buffer Warning Message Alarm Relay Contact Wedynow System Syslog, SMTP/ e-mail event message, alarm relay Contact @24VDC Provide 2 redundant power, alarm relay contact, 6 Pin Operating -10 ~ 60°C (IGS-804SM-SE, IGS-1608SM-SE)	Protocols		00 011111 (100111)			
Protection CPU Watch Dog Supported Redundant Dual DC 12/24/48V (9.6~60VDC) Input power Removable Terminal Block for input power Connector Power Consumption Input Voltage IGS-8045M-SE IGS-16085M-SE Igg-16085M-SE Igg-16085M-	Reverse Polarity					
Redundant Dual DC 12/24/48V (9.6~60VDC) Input power Removable Terminal Block for input power connector		Supported				
Power Removable Terminal Block for input power connector Power Consumption Input Voltage	CPU Watch Dog	Supported				
12 VDC	Power Supply	power Removable Terminal Block for input power				
LED Per unit: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) Per RJ-45 port: 10/100 Link/Active (Green) 1000 Link/Active (Green) 1000 Link/Active (Green) 9.6KB Jumbo Frame 9.6KB IEEE 802.3ac Max frame size extended to 1522Bytes (allow Q-tag in packet) MAC Address Table 8K Memory Buffer Warning Message Alarm Relay Contact Relay outputs with current carrying capacity of 1 A @24VDC Removable Terminal Block Provide 2 redundant power, alarm relay contact, 6 Pin Operating 12.4W 17.8W 17.8W 17.8W 17.8W 17.8W 17.8W 17.8W 17.8W 10.9W 10.9		Input Voltage	IGS-804SM-SE	IGS-1608SM-SE		
LED Per unit: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) Per RJ-45 port: 10/100 Link/Active (Green) 1000 Link/Active (Green) 1000 Link/Active (Green) 9.6KB Jumbo Frame 9.6KB Max frame size extended to 1522Bytes (allow Q-tag in packet) MAC Address Table 8K Memory Buffer Warning Message Alarm Relay Contact Removable Terminal Block Provide 2 redundant power, alarm relay contact, 6 Pin Operating Power 1 (Green), Power 2 (Green), Fault (Amber), Fault (Amber), CPU Act (Green) 1000 Link/Active (Green	Consumption	12 VDC	11W	17W		
LED Per unit: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) Per RJ-45 port: 10/100 Link/Active (Green) 1000 Link/Active (Amber) SFP Fiber Per port: Link/Active (Green) Jumbo Frame 9.6KB IEEE 802.3ac Max frame size extended to 1522Bytes (allow Q-tag in packet) MAC Address Table 8K Memory Buffer Varning Message System Syslog, SMTP/ e-mail event message, alarm relay Alarm Relay Alarm Relay Contact Relay outputs with current carrying capacity of 1 A @24VDC Removable Terminal Block Provide 2 redundant power, alarm relay contact, 6 Pin Operating -10 ~ 60°C (IGS-804SM-SE, IGS-1608SM-SE)						
(Amber), CPU Act (Green), Ring Master (Yéllow) Per RJ-45 port: 10/100 Link/Active (Green) 1000 Link/Active (Amber) SFP Fiber Per port: Link/Active (Green) 9.6KB IEEE 802.3ac Max frame size extended to 1522Bytes (allow Q-tag in packet) MAC Address Table 8K Memory Buffer 512K Bytes for packet buffer Warning Message System Syslog, SMTP/ e-mail event message, alarm relay Alarm Relay Relay outputs with current carrying capacity of 1 A Contact @24VDC Removable Terminal Block Provide 2 redundant power, alarm relay contact, 6 Pin Operating 10 ~ 60°C (IGS-804SM-SE, IGS-1608SM-SE)		48 VDC	12.9W	20.2W		
Jumbo Frame 9.6KB IEEE 802.3ac Max frame size extended to 1522Bytes (allow Q-tag in packet) MAC Address Table 8K Memory Buffer 512K Bytes for packet buffer Warning Message System Syslog, SMTP/ e-mail event message, alarm relay Alarm Relay Relay outputs with current carrying capacity of 1 A Contact @24VDC Removable Provide 2 redundant power, alarm relay contact, 6 Pin Operating -10 ~ 60°C (IGS-804SM-SE, IGS-1608SM-SE)	LED	(Amber), CPU Act (Green), Ring Master (Yellow) Per RJ-45 port: 10/100 Link/Active (Green) 1000 Link/Active (Amber)				
in packet) MAC Address Table 8K Memory Buffer 512K Bytes for packet buffer Warning Message System Syslog, SMTP/ e-mail event message, alarm relay Alarm Relay Relay outputs with current carrying capacity of 1 A Contact @24VDC Removable Provide 2 redundant power, alarm relay contact, 6 Pin Operating -10 ~ 60°C (IGS-804SM-SE, IGS-1608SM-SE)	Jumbo Frame					
Memory Buffer512K Bytes for packet bufferWarning MessageSystem Syslog, SMTP/ e-mail event message, alarm relayAlarm RelayRelay outputs with current carrying capacity of 1 AContact@24VDCRemovable Terminal BlockProvide 2 redundant power, alarm relay contact, 6 PinOperating-10 ~ 60°C (IGS-804SM-SE, IGS-1608SM-SE)	IEEE 802.3ac					
Warning MessageSystem Syslog, SMTP/ e-mail event message, alarm relayAlarm RelayRelay outputs with current carrying capacity of 1 AContact@24VDCRemovable Terminal BlockProvide 2 redundant power, alarm relay contact, 6 PinOperating-10 ~ 60°C (IGS-804SM-SE, IGS-1608SM-SE)	MAC Address Table					
Alarm Relay Contact Removable Terminal Block Operating Relay outputs with current carrying capacity of 1 A @24VDC Provide 2 redundant power, alarm relay contact, 6 Pin -10 ~ 60°C (IGS-804SM-SE, IGS-1608SM-SE)	Memory Buffer	512K Bytes for	packet buffer			
Alarm Relay Contact Removable Terminal Block Operating Relay outputs with current carrying capacity of 1 A @24VDC Provide 2 redundant power, alarm relay contact, 6 Pin -10 ~ 60°C (IGS-804SM-SE, IGS-1608SM-SE)	Warning Message	System Syslog,	SMTP/ e-mail ever	nt message, alarm relay		
Terminal Block Pin Operating -10 ~ 60°C (IGS-804SM-SE, IGS-1608SM-SE)						
75 C (165 GO 15111 5E E)		10 (000 (100	ODACNA CE ICC 1	COOCNA CEV		

Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40 ~ 85°C
Housing	Rugged Metal, IP30 Protection, Fanless
Dimensions	106 x 72 x152 mm (D x W x H) (IGS-804SM-SE) 116 x 91 x 157 mm (Dx Wx H) (IGS-1608SM-SE)
Weight	0.74kg (IGS-804SM-SE) 1.35kg (IGS-1608SM-SE)
Installation Mounting	DIN Rail mounting, or wall mounting (optional)
MTBF	593,726 Hours (IGS-803SM-SE) 431,610 Hours (IGS-1608SM-SE) (MIL-HDBK-217)
Warranty	5 years
Certification	
EMC	CE (EN55024, EN55032)
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A, CE
Railway Traffic	EN50121-4
Immunity for Heavy Industrial Environment	EN61000-6-2
Emission for Heavy Industrial Environment	EN61000-6-4
EMS	EN61000-4-2 (ESD) Level 3, Criteria B
(Electromagnetic	EN61000-4-3 (RS) Level 3, Criteria A
Susceptibility)	EN61000-4-4 (Burst) Level 3, Criteria A
Protection Level	EN61000-4-5 (Surge) Level 3, Criteria B
	EN61000-4-6 (CS) Level 3, Criteria A
	EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A
Safety	UL60950-1, EN60950-1 (IGS-1608SM-SE) EN60950-1 (IGS-804SM-SE)
Hipot	DC 2.25KV for power to chassis ground, Ethernet ports to chassis ground
Surge protection	4KV for UTP and Fiber ports
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Software Specifications

Topology					
VLAN	IEEE 802.1q VLAN,up to 4094 802.1Q VLAN VID				
	IEEE 802.1q VLAN,up to 4094 Groups				
	IEEE 802.1ad Q-in-Q				
	MAC-based VLAN,up to 256 entries				
	IP Subnet-based VLAN, up to 128 entries				
	Protocol-based VLAN(Ethernt, SNAP, LLC), up to 128 entries				
	VLAN Translation, up to 256 entries				
	GVRP (GARP VLAN Registration Protocal)				
	MVR (Multicast VLAN Registration)				
	Static (Hash with SA, DA, IP, TCP/UDP port), Maximum trunk group : 6group (IGS-804SM-SE), 12group (IGS-1608SM-SE)				
Trunk)	Dynamic (IEEE 802.3ad LACP), Maximum trunk group : 6group (IGS-804SM-SE), 12group (IGS-1608SM-SE)				
	Per group up-to 8 port				
Spanning Tree	IEEE 802.1d STP				
	IEEE 802.1w RSTP				
	IEEE 802.1s MSTP				
Multiple μ-Ring	up to 5 instances that each supports μ -Ring, μ -Chain or Sub-Ring type for flexible uses, and maximum up to 5 Rings. Recovery time <10ms The maximum number of devices allowed in a Ring supported ring is 250. (Please see CTC Union μ -Ring white paper for more details and more topology applications)				
Loop Protection	Supported				
ITU-T G.8032 /	Recovery time <50ms				
Y.1344 ERPS (Ethernet Ring Protection)	Single Ring, Sub-Ring, Multiple ring topology network				

QoS Features					
Class of Service	IEEE 802.1p 8 active priorities queues for per port				
Traffic	IEEE 802.1p based CoS				
Classification QoS	IP Precedence based CoS				
	IP DSCP based CoS				
	QCL(QoS Control List): Frame Type, Source/ Destination MAC, VLAN ID, PCP, DEI				
	QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number				
Bandwidth	Rate in steps :1 kbps / Mbps / fps / kfps				
Control for	Range: 100 kbps to 1Gbps / 1fps to 3300kfps				
Ingress	Rate Unit : bit or frame				
Bandwidth	Rate in steps : 1 kbps / Mbps				
Control for Egress	hange. Too kaps to Tabps				
	Rate Unit : bit				
	Per queue / Per port shaper				
DiffServ (RF 2474)	Remarking				
Storm Control	for Unicast, Broadcast, Multicast				
IP Multicasting Fea	tures				
IGMP / MLD	IGMP Snooping v1, v2, v3 / MLD Snooping v1, v2				
Snooping	Port Filtering Profile				
	Throttling, Fast Leave				
	Maximum Multicast Group : up to 1022 entries				
	Query / Static Router Port				
Security Features					
IEEE 802.1X	Port-Based				
	MAC-Based				
ACL	Number of rules : up to 256 entries				
	for L2 / L3 / L4				
	L2 : Mac address SA/DA/VLAN				
	L3: IP address SA/DA, Subnet L4: TCP/UDP				
	2.1.10.700.				

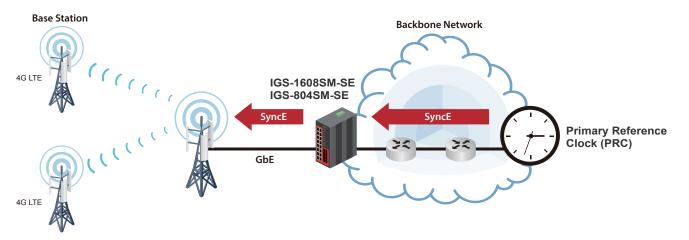
union

	ation & accounting			
	cation & accounting, TACACS+ 3.0			
HTTPS, HTTP	Supported			
SSL / SSH v2	Supported			
User Name	Local Authentication			
Password Authentication	Remote Authentication (via RADIUS / TACACS+)			
Management Interface Access Filtering	Web, Telnet / SSH , CLI RS-232 console			
Management Feat	ures			
CLI	Cisco® like CLI			
Web Based Manag	ement			
Telnet	Server			
SNMP	V1, V2c, V3			
SW &	TFTP, HTTP			
Configuration Upgrade	Redundant firmware in case of upgrade failure			
RMON	RMON I (1, 2, 3, 9 group), RMON II			
MIB	RFC1213 MIB II, Private MIB			
UPnP	Supported			
DHCP	Server, Client, Relay, Relay option 82 , Snooping			
IP Source Guard	Supported			
Port Mirroring	Supported			
Event Syslog	Syslog server (RFC3164) (Support 1 server)			
Warning Message	System syslog, e-mail, alarm relay			
DNS	Client, Proxy			
SyncE	ITU-T G.8262 Sync Ethernet			

IEEE 1588 PTP V2	Support 5 operating mode in each port : Ordinary-Boundary, Peer to Peer Transparent Clock, End to End Transparent Clock, Master, Slave
NTP, SNTP	Client
LLDP (IEEE	Link Layer Discovery Protocol
802.1ab)	LLDP-MED
IPv6 Features	
IPv6 Management	Telnet Server/ICMP v6
SNMP over IPv6	Supported
HTTP over IPv6	Supported
SSH over IPv6	Supported
IPv6 Telnet	Supported
IPv6 NTP, SNTP	Client
IPv6 TFTP	Supported
IPv6 QoS	Supported
IPv6 ACL	Number of rules: up to 256 entries
	for L2 / L3 / L4 L2 : Mac address SA/DA/VLAN
	L3: IP address SA/DA, Subnet
0.1	L4: TCP/UDP
Others Features	
Green Ethernet	Supports IEEE 802.3az EEE (Energy Efficient Ethernet) Management to optimize the power consumption
	Determine the cable length and lowering the power
	for ports with short cables
	Lower the power for a port when there is no link
6 11 51 41	LED Power Management :Adjustment LEDs intensity
Cable Diagnostic	Measuring UTP cable normal or broken point

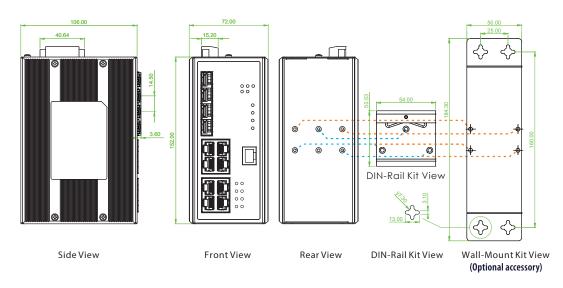
Application

Figure: Application for mobile backhaul



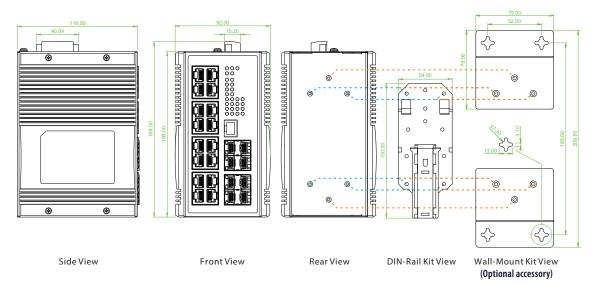
Dimensions

IGS-804SM-SE





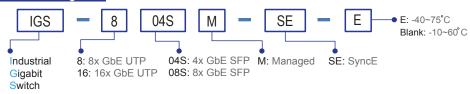
► IGS-1608SM-SE



Ordering Information

		Total UTP Port		Fiber Port Certification					Operating	
Model Name	Managed	Port	10/100/1000 Base-T	100/1000 Base-X	Railway EN50121-4	Safety UL60950-1	Safety EN60950-1	EN61000-6-2 EN61000-6-4	CE FCC	Temperature
IGS-804SM-SE	V	12	8	4 SFP	V		V	V	V	-10~60°C
IGS-804SM-SE-E	V	12	8	4 SFP	V		V	V	V	-40~75°C
IGS-1608SM-SE	V	24	16	8 SFP	V	V	V	V	V	-10~60°C
IGS-1608SM-SE-E	V	24	16	8 SEP	V	V	V	V	V	-40~75°C

Model Naming Rule



■ Package List

- One device of the series
- Console cable (RJ-45 to DB9)
- CD (SmartConfig, MIB file, Manual)
- Quick installation guide · Din Rail with screws
- Terminal block
 - Protective caps for SFP ports

Optional Accessories

■ Wall mount kit accessories

IND-WMK02	Wall Mount kit for Industrial product (Wide) (184 x 50mm) (For IGS-804SM-SE)
IND-WMK04	Wall Mount kit for Industrial product (2 pcs in 1 set, 76mm x 75mm x 2pcs) (For IGS-1608SM-SE)

■ Industrial SFP Transceiver

The ISFP series of industrial grade SFP modules have been fully tested with the series product for guaranteed compatibility and performance. The best performance can be guaranteed even in mission-critical applications. (Please see CTC Union's Industrial SFP datasheet for more details and more items.)

ISFP-M7000-85-D(E)	Industrial SFP GbE 1000Base-SX, M/M, 500 meter,wave length 850nm, 7.5dB, LC, DDMI, -10~70°C (-40~85°C)
ISFP-S7020-31-D(E)	Industrial SFP 1000Base-LX, S/M, 20km, wave length 1310nm, 15dB, LC, DDMI, -10~70°C (-40~85°C)
ISFP-T7T00-00-(E)	Industrial SFP 10/100/1000Base-T UTP 100meter, -10~70°C (-40~85°C)
ISFP-M5002-31-D(E)	Industrial SFP 155M 100Base-FX, MM, 2km, wave length 1310nm, 12dB, LC, DDMI, -10~70°C (-40~85°C)
ISFP-S5030-31-D(E)	Industrial SFP 155M 100Base-FX, SM, 30km, 1310nm, 19dB, LC, DDMI, -10~70°C (-40~85°C)

SFP Naming Rule

