IGS+803SM-8PH & IGS+803SM-8PH24



- **♦** 8x GbE RJ45 + 3x 100/1000Base-X SFP with 8x PoE 240W, 48VDC
- ▶ 8x GbE RJ45 + 3x 100/1000Base-X SFP with 8x PoE 180W, 24/48VDC
- >> Supports IEEE 1588 PTP V2
- >> Supports u-Ring, ERPS, EPS, MSTP, RSTP, STP for Redundant Cabling
- >> Auto Checking and Auto Reset When PoE PD Fail
- » UL60950-1, EN60950-1, EN62368-1, EN50121-4, NEMA-TS2, EN61000-6-2, EN61000-6-4, CE and FCC Certified
- >> 4KV Surge Protection for PoE, RJ45 and SFP Ports





















The industrial PoE Ethernet switches IGS+803SM-8PH and IGS+803SM-8PH24 has 8 Gigabit UTP ports and each port complies with the IEEE802.3af/at up to 30W PoE+ standard. Equipped with 3 100/1000 SFP slots for fiber optic connections to meet the requirements for extended transmission distance, fanless design, high MTBF, 4KV surge protection and supports wide operating temperature, redundant power input, of 48VDC IGS+803SM-8PH and 24/48VDC IGS+803SM-8PH24, suitable for heavy-duty applications in harsh environments, such as industrial factory automations, data centers, intelligent transportation systems, military and utility market applications where environmental conditions exceed commercial product specifications.

Features

- 48VDC (46~57VDC) redundant dual power input (IGS+803SM-8PH)
- 24/48VDC (20~57VDC) redundant dual power input (IGS+803SM-8PH24)
- Provides 8-port IEEE 802.3af / 802.3at PoE+ output (30W per port, total 240W) (IGS+803SM-8PH)
- Provides 8-port IEEE 802.3af / 802.3at PoE+ output (30W per port, total 180W) (IGS+803SM-8PH24)
- Cable diagnostics, identifies opens/shorts distance
- Provides 5 ring instances that each can support μ-Ring, μ-Chain or Sub-Ring type for flexible uses. Supports up to 5 rings in one device (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
- Supports EMS Management

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 802.3af	PoE (Power over Ethernet)
	IEEE 802.3at	PoE+ (Power over Ethernet enhancements)
	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)
	ITU-T G.8031 /Y.1342	EPS (Ethernet Protection Switching)
	IEEE 802.1Q	Virtual LANs (VLAN)
	IEEE 802.1X	Port based and MAC based Network Access Control, Authentication

Standard									
	IEEE 802.3ac Max frame size extended to 1522Bytes								
	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)								
Switch Architecture	Back-Plane (Switching Fabric): 22Gbps (Full Wire-Speed)								
Data Processing	Store and Forward								
Flow Control	IEEE 802.3x for full duplex mode Back pressure for half duplex mode								
Network Connector	8x 10/100/1000Base-								
	RJ-45 UTP port suppo			ADI-X function					
	SFP port supports 100	1/1000 dual speed wit	n DDMI						
Console	RS-232 (RJ-45)	0000							
PoE Standard & RJ-45 Pin Assignment	8x IEEE 802.3af /IEEE 802.3a 2 pairs PoE, PoE+, 30W/port End-Span, Alternative A mode. Positive (V+): RJ-45 pin 1, 2. Negative (V-): RJ-45 pin 3, 6.								
Network Cable	UTP/STP Cat. 5e cable	e or above							
	EIA/TIA-568 100-ohm	(100meter)							
Protocols	CSMA/CD								
Reverse Polarity Protection	Supported for power in	nput							
Overload Current Protection	Supported								
CPU Watch Dog Power Supply	Supported IGS+803SM-8PH								
	Redundant Dual input power (Removable terminal block) 48VDC (44~57VDC) (50~57V input is recommended for IEEE802.3at PoE+ applications) IGS+803SM-8PH24 Redundant Dual DC 24/48V (20~57VDC) Input power (Removable Terminal Block) Built-in very high efficiency booster(94~97%) to rise up 52VDC for PoE output Regulated PoE output voltage (52VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100 meter								
		voltage (52VDC) to sta	bilize PoE device	C for PoE output and guarantee delivery PoE p	ower distance to 100				
Power Consumption	meter IGS+803SM-8PH	voltage (52VDC) to sta	bilize PoE device	and guarantee delivery PoE p					
Power Consumption	meter IGS+803SM-8PH Input Voltage	voltage (52VDC) to sta	bilize PoE device	C for PoE output and guarantee delivery PoE p Device Power Consumption	PoE Budget				
Power Consumption	meter IGS+803SM-8PH	voltage (52VDC) to sta	bilize PoE device	and guarantee delivery PoE p					
Power Consumption	meter IGS+803SM-8PH Input Voltage	voltage (52VDC) to sta	bilize PoE device	and guarantee delivery PoE p	PoE Budget				
Power Consumption	IGS+803SM-8PH Input Voltage 50 VDC	voltage (52VDC) to sta Total Power Consu 255.5W Total Power	mption [Device Power Consumption 15.5W	PoE Budget 240W Boost				
Power Consumption	IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage	Total Power Consu 255.5W Total Power Consumption	mption [Device Power Consumption 15.5W PoE Budget	PoE Budget 240W Boost Efficiency				
Power Consumption	IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC	Total Power Consu 255.5W Total Power Consumption 194.2W	mption Consumption 10.8W	Device Power Consumption 15.5W	PoE Budget 240W Boost Efficiency 97%				
·	IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC	Total Power Consu 255.5W Total Power Consumption 194.2W 196W	mption Consumption 10.8W 11.5W	Device Power Consumption 15.5W PoE Budget 180W 180W	PoE Budget 240W Boost Efficiency				
Power Consumption PoE Power Budget	IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/pc	mption Consumption Device Pown Consumption 10.8W 11.5W Device Pown Consumption 10.8W 11.5W Device Pown Consumption 10.8W 11.5W	Device Power Consumption 15.5W Pr PoE Budget 180W 180W 180W GS+803SM-8PH)	PoE Budget 240W Boost Efficiency 97%				
PoE Power Budget	IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output Maximum PoE Output	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/popower b	Device Power Consumption 10.8W 11.5W ort, Total 240W (III) ort, Total 180W (III)	Poevice Power Consumption 15.5W Poe Budget 180W 180W 180W GS+803SM-8PH) GS+803SM-8PH24)	PoE Budget 240W Boost Efficiency 97% 97%				
·	meter IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gree	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/popower budget 30W/popower budget 30W/popower), Power 2 (Green), Fower 2 (Green	Device Power Consumption 10.8W 11.5W ort, Total 240W (Note Total 180W (Note Total 180W) (Nota Total 180W) (Note Total 180W) (Nota Total 180W) (Note Total 180W) (Note Total 180W) (Note Total 18	Device Power Consumption 15.5W Pr PoE Budget 180W 180W 180W GS+803SM-8PH)	PoE Budget 240W Boost Efficiency 97% 97%				
PoE Power Budget	IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gree UTP: 10/100 Link/Acti	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/po power budget 30W/po en), Power 2 (Green), F ve (Green), 1000 Link	Device Power Consumption 10.8W 11.5W ort, Total 240W (Note Total 180W (Note Total 180W) (Nota Total 180W) (Note Total 180W) (Nota Total 180W) (Note Total 180W) (Note Total 180W) (Note Total 18	Poevice Power Consumption 15.5W Poe Budget 180W 180W 180W GS+803SM-8PH) GS+803SM-8PH24)	PoE Budget 240W Boost Efficiency 97% 97%				
PoE Power Budget	IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gree UTP: 10/100 Link/Active (V	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/po power budget 30W/po en), Power 2 (Green), F ve (Green), 1000 Link	Device Power Consumption 10.8W 11.5W ort, Total 240W (Note Total 180W (Note Total 180W) (Nota Total 180W) (Note Total 180W) (Nota Total 180W) (Note Total 180W) (Note Total 180W) (Note Total 18	Poevice Power Consumption 15.5W Poe Budget 180W 180W 180W GS+803SM-8PH) GS+803SM-8PH24)	PoE Budget 240W Boost Efficiency 97% 97%				
PoE Power Budget LED	meter IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gree UTP: 10/100 Link/Active (FoE: ON (Green)	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/po power budget 30W/po en), Power 2 (Green), F ve (Green), 1000 Link	Device Power Consumption 10.8W 11.5W ort, Total 240W (Note Total 180W (Note Total 180W) (Nota Total 180W) (Note Total 180W) (Nota Total 180W) (Note Total 180W) (Note Total 180W) (Note Total 18	Poevice Power Consumption 15.5W Poe Budget 180W 180W 180W GS+803SM-8PH) GS+803SM-8PH24)	PoE Budget 240W Boost Efficiency 97% 97%				
PoE Power Budget	IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gree UTP: 10/100 Link/Acti SFP Slot: Link/Active (PoE: ON (Green) 9.6KB	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/pc power budget 30W/pc en), Power 2 (Green), F ve (Green), 1000 Link Green)	Device Power Consumption 10.8W 11.5W ort, Total 240W (III ort, Total 180W (III ort, Total (Amber), CPI (Active (Amber)	and guarantee delivery PoE p Device Power Consumption 15.5W PoE Budget 180W 180W 180W GS+803SM-8PH) GS+803SM-8PH24) J Act (Green), Ring Master (Ye)	PoE Budget 240W Boost Efficiency 97% 97%				
PoE Power Budget LED Jumbo Frame	meter IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gree UTP: 10/100 Link/Active (FoE: ON (Green)	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/pc power budget 30W/pc en), Power 2 (Green), F ve (Green), 1000 Link Green)	Device Power Consumption 10.8W 11.5W ort, Total 240W (III ort, Total 180W (III ort, Total (Amber), CPI (Active (Amber)	and guarantee delivery PoE p Device Power Consumption 15.5W PoE Budget 180W 180W 180W GS+803SM-8PH) GS+803SM-8PH24) J Act (Green), Ring Master (Ye)	PoE Budget 240W Boost Efficiency 97% 97%				
PoE Power Budget LED Jumbo Frame IEEE802.3ac	IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gree UTP: 10/100 Link/Active (IPOE: ON (Green)) 9.6KB Max frame size extend	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/popower b	Device Power Consumption 10.8W 11.5W ort, Total 240W (III ort, Total 180W (III ort, Total (Amber), CPI (Active (Amber)	and guarantee delivery PoE p Device Power Consumption 15.5W PoE Budget 180W 180W 180W GS+803SM-8PH) GS+803SM-8PH24) J Act (Green), Ring Master (Ye)	PoE Budget 240W Boost Efficiency 97% 97%				
PoE Power Budget LED Jumbo Frame IEEE802.3ac MAC Address Table	meter IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gree UTP: 10/100 Link/Active (PoE: ON (Green) 9.6KB Max frame size extend 8K	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/popower b	Device Power Consumption 10.8W 11.5W ort, Total 240W (III ort, Total 180W (III ort, Total (Amber), CPI (Active (Amber)	and guarantee delivery PoE p Device Power Consumption 15.5W PoE Budget 180W 180W 180W GS+803SM-8PH) GS+803SM-8PH24) J Act (Green), Ring Master (Ye)	PoE Budget 240W Boost Efficiency 97% 97%				
PoE Power Budget LED Jumbo Frame IEEE802.3ac MAC Address Table Memory Buffer	meter IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gree UTP: 10/100 Link/Active (PoE: ON (Green) 9.6KB Max frame size extend 8K 512K Bytes for packet	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/poen), Power 2 (Green), Fower 2 (Green), Fower 2 (Green), Fower 300 Link Green) ed to 1522Bytes (allow buffer 128M Bytes RAM	Device Power Consumption 10.8W 11.5W Ort, Total 240W (Note, Total 180W (Note) Active (Amber)	and guarantee delivery PoE p Device Power Consumption 15.5W PoE Budget 180W 180W 180W GS+803SM-8PH) GS+803SM-8PH24) J Act (Green), Ring Master (Ye)	PoE Budget 240W Boost Efficiency 97% 97%				
PoE Power Budget LED Jumbo Frame IEEE802.3ac MAC Address Table Memory Buffer Device Memory	meter IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gree UTP: 10/100 Link/Active (PoE: ON (Green) 9.6KB Max frame size extend 8K 512K Bytes for packet 16M Bytes Flash ROM	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/popower bu	Device Power Consumption 10.8W 11.5W 11.5W Int, Total 240W (If ault (Amber), CPU/Active (Amber)	and guarantee delivery PoE p Device Power Consumption 15.5W PoE Budget 180W 180W 180W GS+803SM-8PH) GS+803SM-8PH24) J Act (Green), Ring Master (Ye)	PoE Budget 240W Boost Efficiency 97% 97%				
PoE Power Budget LED Jumbo Frame IEEE802.3ac MAC Address Table Memory Buffer Device Memory Warning Message	IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gree UTP: 10/100 Link/Active (PoE: ON (Green) 9.6KB Max frame size extend 8K 512K Bytes for packet 16M Bytes Flash ROM System Syslog, SMTP/	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/popower bu	Device Power Consumption 10.8W 11.5W ort, Total 240W (II ort, Total 180W (II ort, Tota	and guarantee delivery PoE p Device Power Consumption 15.5W PoE Budget 180W 180W 180W GS+803SM-8PH) GS+803SM-8PH24) J Act (Green), Ring Master (Ye)	PoE Budget 240W Boost Efficiency 97% 97%				
PoE Power Budget LED Jumbo Frame IEEE802.3ac MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact	meter IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gree UTP: 10/100 Link/Active (IPOE: ON (Green)) 9.6KB Max frame size extend 8K 512K Bytes for packet 16M Bytes Flash ROM System Syslog, SMTP/ Relay outputs with curr	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/popower b	Device Power Consumption 10.8W 11.5W	and guarantee delivery PoE p Device Power Consumption 15.5W PoE Budget 180W 180W 180W GS+803SM-8PH) GS+803SM-8PH24) J Act (Green), Ring Master (Ye)	PoE Budget 240W Boost Efficiency 97% 97%				
PoE Power Budget LED Jumbo Frame IEEE802.3ac MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact Removable Terminal Block	IGS+803SM-8PH Input Voltage 50 VDC IGS+803SM-8PH24 Input Voltage 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gree UTP: 10/100 Link/Active (PoE: ON (Green) 9.6KB Max frame size extend 8K 512K Bytes for packet 16M Bytes Flash ROM System Syslog, SMTP/ Relay outputs with curr	Total Power Consu 255.5W Total Power Consumption 194.2W 196W power budget 30W/pc power budget 30W/pc en), Power 2 (Green), F ve (Green), 1000 Link Green) ded to 1522Bytes (allow buffer 128M Bytes RAM e-mail event message ent carrying capacity ock for Alarm relay, rec sSM-8PH, IGS+803SN	Device Power Consumption Device Power Consumption 10.8W 11.5W Ort, Total 240W (III Fault (Amber), CPI Active (Amber) V Q-tag in packet e, alarm relay of 1A @24VDC fundant power PV M-8PH24)	and guarantee delivery PoE p Device Power Consumption 15.5W PoE Budget 180W 180W 180W GS+803SM-8PH) GS+803SM-8PH24) J Act (Green), Ring Master (Ye)	PoE Budget 240W Boost Efficiency 97% 97%				

Industrial Managed GbE PoE Switch

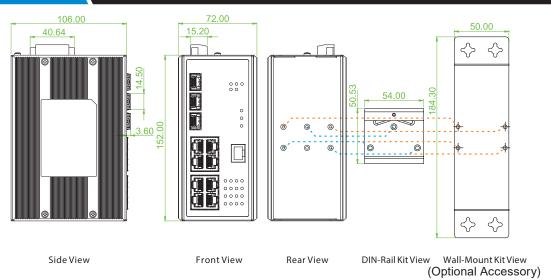
	9
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40 ~ 85°C
Housing	Rugged Metal, IP30 Protection, Fanless
Dimensions	106 x 72 x 152mm (D x W x H)
Weight	0.85kg (IGS+803SM-8PH)
	0.86kg (IGS+803SM-8PH24)
Installation Mounting	DIN Rail mounting or wall mounting (Optional)
MTBF	487,189 Hours (IGS+803SM-8PH)
(MIL-HDBK-217)	528,753 Hours (IGS+803SM-8PH24)
Warranty	5 years
Certification	
EMC	CE (EN55024, EN55032)
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A, CE
Railway Traffic	EN50121-4
Traffic Control	NEMA TS2
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 Susceptibility)	EN61000-4-3 (RS) Level 3, Criteria A
Protection Level	EN61000-4-4 (Burst) Level 3, Criteria A
	EN61000-4-5 (Surge) Level 3, Criteria B
EMS (Electromagnetic	EN61000-4-6 (CS) Level 3, Criteria A
Susceptibility) Protection Level	EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A
Safety	UL60950-1, EN60950-1, EN62368-1
Surge Protection	4KV for PoE, UTP and Fiber ports
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Software Specific	cations \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
Topology						
VLAN	IEEE 802.1q VLAN, up to 4094 802.1Q VLAN ID					
	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 Protocol)					
	MVR (Multicast VLAN Registration)					
	Voice VLAN					
Link Aggregation	Static (Hash with SA, DA, IP, TCP/UDP port), up to 5 trunk group					
(Port Trunk)	Dynamic (IEEE 802.3ad LACP), up to 5 trunk group					
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 device is allowed 250 nodes in a Ring.					
Loop Protection	Supported					

ITU-T G.8032 / Y.1344 ERPS (Ethernet Ring Protection)	Recovery time <50ms Single Ring, Sub-Ring, Multiple ring topology network					
ITU-T G.8031 / Y.1342 EPS						
(Ethernet Protection witching)	Supported					
QoS Features						
Class of Service	IEEE 802.1p 8 active priorities queues for per port					
Traffic Classification QoS	IEEE 802.1p based CoS, IP Precedence based CoS, IP DSCP based CoS					
	QCL (QoS Control List): Frame Type, Source/Destination MAC, VLAN ID, PCP, DEI, Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number					
	QCE (QoS Control Entry):					
Bandwidth Control for Ingress	100~1,000,000 when the "Unit" is "kbps", and 1~1,000 when the "Unit" is "Mbps"					
Bandwidth Control for Egress	100~1,000,000 when the "Unit" is "kbps", and 1~1,000 when the "Unit" is "Mbps"					
);;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	Per queue / Port shaper					
DiffServ (RF 2474) Remarking						
	For Unicast, Broadcast and Multicast					
IP Multicasting Fe						
IGMP / MLD Snooping	IGMP Snooping v1, v2, v3 / MLD Snooping v1, v2					
	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					
RADIUS	Authentication & Accounting					
TACACS+	Authentication					
HTTPS, HTTP	Supported					
SSL / SSH v2	Supported					
User Name Password	Local Authentication					
Authentication	Remote Authentication (via RADIUS / TACACS+)					
Management Interface Access Filtering	Web, Telnet / SSH, CLI RS-232 console					
Management Featu	res					
CLI	Cisco® like CLI					
Web UI	Supported					
Telnet	Server					
SNMP	V1, V2c, V3					
sFlow	Supported					
Modbus/TCP	Supports for management and monitoring					
SW & Configuration Upgrade	TFTP, HTTP					
5 - 1.5	Redundant firmware in case of upgrade failure					
FTP client						
RMON	RMON I (1, 2, 3, 9 group), RMON II					
MIB	RFC1213 MIB II, Private MIB					
UPnP	Supported					
ВООТР	Supported					
DHCP	Server, Client, Relay, Relay option 82, Snooping					
RARP	Supported					
IP Source Guard	Supported					
ir Juulut dualu						
Port Mirroring	Supported					

	iluustilai mallageu unt Put Switch
Event Syslog	Syslog server (RFC3164)
Warning Message	System syslog, e-mail, alarm relay
DNS	Client, Proxy
IEEE1588 PTP V2	Support 5 operating mode in each port : Ordinary-Boundary, Peer to Peer Transparent Clock, End to End Transparent Clock, Master and Slave
NTP, SNTP	Client
LLDP	Link Layer Discovery Protocol
(IEEE 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 SIP, Subnet (32bit) 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
	LED Power Management :Adjustment LEDs intensity
Cable Diagnostic	Measuring UTP cable normal or broken point distance
Advanced PoE	
Management	PoE PD failure auto checking, and auto reset when PD fail PoE port on/off weekly scheduling PoE Configuration PoE Enable/Disable Power limit by classification Power feeding priority Total PoE power budget limitation: maximum 240W (IGS+803SM-8PH) Total PoE power budget limitation: maximum 180W (IGS+803SM-8PH24)

Dimensions



Ordering Information

		RJ45	SFP PoE		E	Input Power	ower Certification					
Model Name	Total Port	10/100/1000 Base-T(X)	100/1000 Base-X	IEEE802.3 at/af	Power Budget	Redundant	NEMA TS2	UL60950-1 EN60950-1 EN62368-1	EN50121-4	EN61000-6-2 EN61000-6-4	CE FCC	Operating Temperature
IGS+803SM-8PH	11	8	3	8	240W	48VDC	V	V	V	V	V	-10~60°C
IGS+803SM-8PHE	11	8	3	8	240W	48VDC	V	V	V	V	V	-40~75°C
IGS+803SM-8PH24	11	8	3	8	180W	24/48VDC	V	V	V	V	V	-10~60°C
IGS+803SM-8PHE24	11	8	3	8	180W	24/48VDC	V	V	V	V	V	-40~75°C

Optional Accessories

■ Wall Mount Kit

IND-WMK02 Wall Mount kit for Industrial product (Wide) (184 x 50mm)

■ Industrial SFP Transceiver

The ISFP series of industrial grade SFP modules have been fully tested with all CTC Union industrial grade Ethernet switches for guaranteed compatibility and performance. Best performance can be guaranteed, even in mission-critical applications. (Please see CTC Union's Industrial SFP datasheets for more items and detailed information.)

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)

■ Industrial Power Supply

NDR-240-48 Industrial Power, Input 90 ~ 264VAC/127 ~ 370VDC, Output 48VDC, 240W, -20 ~ 70°C