

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

- **♦**8x GbE RJ45 + 3x 100/1000Base SFP with 8x PoE 240W, 48VDC
- ▶8x GbE RJ45 + 3x 100/1000Base 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, 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 input power (IGS+803SM-8PH)
- 24/48VDC (20~57VDC) redundant dual input power (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 |

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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



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IEEE 802.3ac	Max frame size ex	tended to 1	1522Bytes		
IEEE 802.3ad				_ACP(Link Aggregatior	n Control Protoco
IEEE 802.3x Flow control for Full Duplex					
	, ,		ol for Traff	ic Prioritization	
'					
Store and Forward	0 / 1 (,		
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				DI-X function	
			1460 11101/111	DI A Tarrectori	
	.00/1000 ddd: 5peed	With DDM			
· ,	- 802.3a				
2 pairs PoE, PoE+, 30 End-Span, Alternativ Positive (V+): RJ-45	0W/port ve A mode. pin 1, 2.				
UTP/STP Cat. 5e cal	ole or above				
EIA/TIA-568 100-oh	m (100meter)				
CSMA/CD					
Supported for power	er input				
Supported					
Supported					
IGS+803SM-8PH24 Redundant Dual DC					
Built-in very high eff Regulated PoE outp distance to 100 met	ficiency booster(94~9 out voltage (52VDC) to	97%) to rise	up 52VDC	ole Terminal Block) for PoE output and guarantee delive	ry PoE power
Built-in very high eff Regulated PoE outp distance to 100 met IGS+803SM-8PH	ficiency booster(94~9 out voltage (52VDC) to er	97%) to rise stabilize F	e up 52VDC oE device,	for PoE output and guarantee delive	
Built-in very high eff Regulated PoE outp distance to 100 met IGS+803SM-8PH Input Voltage	ficiency booster(94~9 out voltage (52VDC) to er Total Power Consu	97%) to rise stabilize F	e up 52VDC oE device,	for PoE output and guarantee delive Power Consumption	PoE Budget
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Built-in very high eff Regulated PoE outp distance to 100 met IGS+803SM-8PH Input Voltage 50 VDC	Total Power Total Power	mption Device	Device F	for PoE output and guarantee delive Power Consumption 15.5W	PoE Budget 240W Boost
Built-in very high eff Regulated PoE outp distance to 100 met IGS+803SM-8PH Input Voltage 50 VDC	Total Power Consumption	mption Device Consur	Device F Power mption	for PoE output and guarantee delive Power Consumption 15.5W PoE Budget	PoE Budget 240W Boost Efficiency
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Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40 ~ 85°C
Housing	Rugged Metal, IP30 Protection, Fanless
Dimensions	106 x 72 x 152 mm (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 (MIL-HDBK-217)	487,189 Hours (IGS+803SM-8PH)
	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	EN61000-4-3 (RS) Level 3, Criteria A
Susceptibility) Protection Level	EN61000-4-4 (Burst) Level 3, Criteria A
Protection Level	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 Specifications —

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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 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 devices in the ring supports 250 nodes.
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 Switching)	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
	QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number
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	100~1,000,000 when the "Unit" is "kbps", and 1~1,000 when the "Unit" is "Mbps"
Egress	Per queue / Per port shaper
DiffServ (RF 2474) Remarki	ng
Storm Control	for Unicast, Broadcast, Multicast

IP Multicasting Features

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, Authorization, Accounting
HTTPS, HTTP	Supported
SSL / SSH v2	Supported
User Name Password Authentication	Local Authentication
	Remote Authentication (via RADIUS / TACACS+)
Management Interface Access Filtering	Web, Telnet / SSH , CLI RS-232 console

Management Features

CLI	Cisco® like CLI						
Web UI	Supported						
Telnet	Server						
SNMP	V1, V2c, V3						
sFlow	Supported						
Modbus/TCP	Supports for management and monitoring						
SW & Configuration	TFTP, HTTP						
Upgrade	Redundant firmware in case of upgrade failure						
FTP client	Supports for upload/download configuration						
RMON	RMON I (1, 2, 3, 9 group), RMON II						
MIB	RFC1213 MIB II, Private MIB						



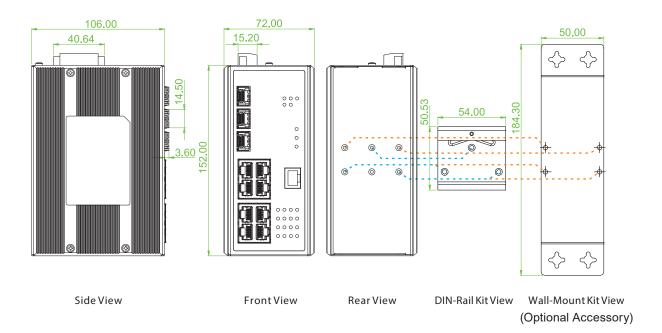
UPnP	Supported						
ВООТР	Supported						
DHCP	Server, Client, Relay, Relay option 82 , Snooping						
RARP	Supported						
IP Source Guard	Supported						
Port Mirroring	Supported						
Event Syslog	Syslog server (RFC3164)						
Warning Message	System syslog, e-mail, alarm relay						
DNS	Client, Proxy						
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						

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

		UTP	Fiber	PoE Port		Input Power	Certification					
Model Name	Total Port	10/100/1000 Base-T	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 SFP	8	240W	48VDC	V	V	V	V	V	-10~60°C
IGS+803SM-8PHE	11	8	3 SFP	8	240W	48VDC	V	V	V	V	V	-40~75°C
IGS+803SM-8PH24	11	8	3 SFP	8	180W	24/48VDC	V	V	V	V	V	-10~60°C
IGS+803SM-8PHE24	11	8	3 SFP	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

