IGS-804SM-SE

8x GbE RJ45 + 4x 100/1000Base-X SFP with SyncE

- » Supports Sync Ethernet & IEEE1588 PTP v2
- > Utilizes a DPLL & TCXO for Accurate Clock Recovery.
- Timing Accuracy of <20ns for SyncE & IEEE1588 v2</p>
- > 2.25K VDC Hi-Pot Isolation Protection for Ethernet Ports and Power
- ≫ 4KV Surge Protection for UTP and Fiber Ports
- EN60950-1, EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified



The industrial grade of synchronization Ethernet switch IGS-804SM-SE with 8 Gigabit UTP ports and 4x 100/1000Mbps SFP slots, supports timing synchronization features of SyncE and IEEE1588 PTP that allow operators to deliver services with optimal stability and continuity in end to end connectivity. it provides a variety functions of power input redundancy, link redundancy of STP/RSTP/MSTP/ERPS and a proprietary ring protocol, it features of IGMP, VLAN QoS, ACL bandwidth control and port mirroring. fanless and rugged enclosure specifically designed for harsh network environments.

Features

- Cable diagnostic, measuring cable normal or broken point distance
- u-Ring, STP, RSTP, MSTP, EPS, 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
- 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
- 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 802.1d	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
	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





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Standard IEEE 2021a/ IEEE 2021a/									
IEEE 602.38.2 FEE [shargy Efficient Elternet] VLAN ID 4094 EEE 602.10 VLAN ID Switch Architecture Bate Processing Data Processing Flow Control Situ control of the status of the s	Standard	IEEE 802.1p LA	N Layer 2 QoS/CoS Protoco	I for Traffic Prioritization					
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Switch Architecture Data Processing Store and Forward Back-plane (Switching Fabric): 24Gbps (Hull wite-speed) Flow Control Bit 46 UTP port support 8 Abb regulation speed, Auto MD/MD/X function SHP port support 8 Abb regulation speed, Auto MD/MD/X function Network Control Bit 46 UTP port support 8 Abb regulation speed, Auto MD/MD/X function Network Cable RE/ 46 UTP port support 8 Abb regulation speed, Auto MD/MD/X function Protocols SSU2 PL/14) Network Cable RE/ ATA 56B 100-01m (100meer) Protocols Supported Reverse Polarity Protection Supported Supported Power Consumption Supported Power Suppy Redundant Dual BC (22/24W (9.8600/DC) (put power Revocabl Terminal Bock for liput power connector Power Suppy Redundant Dual BC (22/24W (9.8600/DC) (put power Revocabl Terminal Bock for liput power connector Protocols System: Power 1 (Sverd), Power 2 (Sverd), CPU Act (Sverd, Ring Musier (Yellow) UTP: 101/101 link/Attable (Green) Jumbo Frame Beclinctain Toul Bit (Xrathabe (Sverd) Ster Piese Fash ROM, 128M Byte RAM Memory Suffer Ster Piese Fash ROM, 128M Byte RAM Memory Suffer Ster Piese Fash ROM, 128M Byte RAM Memory Suffer Ster Piese Fash ROM, 128M Byte RAM Memory		IEEE 802.3az EE	E (Energy Efficient Ethernet)						
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Flow Control IELE 802.3x for full cuplex mode Back pressure for halt duplex mode Network Connector Bx 10/100/1000Essex 15 PF 4 R-44-B UTP port supports dual speed with DUM SFP port supports dual speed with DUM Console R5-32 (FL-45) Wetwork Cable UTPST Cal. 5E cable or above EA/TA-568 100-ohm (100metor) EA/TA-568 100-ohm (100metor) Protocol CSMA/CD Overload Current Protochio Supported CPU Watch Dog Supported CPU Watch Dog Supported Power Sonsumption Input Voltage Input Voltage 102-8045M-SE Input Voltage 102-8045M-SE Input Voltage 12-300 Power Suppty Heduncant DLal DC 12/24/48V (9.6-60VDC) Input power Removable Terminel Rock for Input power connector Sector UTP: 10/100 Ink/Active (Green) 96-80 MAC Address Table Kak trans alze axtended to 1522Ekytes (allow 0-tag) in packet) MAC Address Table Kak trans alze axtended to 1522Ekytes (allow 0-tag) in packet) Memory Buffer 512K Eytes for packet buffer Device Memory 16M Eytes Flash ROM, 12M Meytes RAM Warning Message <td< td=""><th>Switch Architecture</th><td colspan="5">Back-plane (Switching Fabric): 24Gbps (Full wire-speed)</td></td<>	Switch Architecture	Back-plane (Switching Fabric): 24Gbps (Full wire-speed)							
Network Connector Bit 10/100/1000Base-1 RJ-45 + 4x 100/1000Base-X SHP RJ-45 UTP port supports Auto regolitation speed, Auto MDI/MDIX function SFP port supports Auto regolitation speed, Auto MDI/MDIX function Console RS-232 (RJ-45) Network Cable UTP/STP Cat. Se cable or above EAUTA-S68 100-ohm (100meter) Protocols CSMA/CD Reverse Polarity Protection Supported Overload Current Protocols Supported CPU Watch Deg Supported Power Consumption Intervence Power Suppit Reductant Data DC 12/24/480 (96-80/DC) [huit power Removable Terminal Block for input power connector Septem: Power 1 (Scont), Power 2 (Groon), Fault (Ambor), CPU Act (Groon), Ping Master (Yolow) UTE: 10/100 Ink/Active (Greon) Jumbo Frame 9.6K3 Beiter Basil Down BK Mar frame size culoridod to 1522Pytes fallow 0 tag in packet) Mar frame size culoridod to 1522Pytes fallow 0 tag in packet) Mar frame size culoridod to 1522Pytes fallow 0 tag in packet) Mar frame size culoridod to 1522Pytes fallow 0 tag in packet) Mar frame size culoridod to 1522Pytes fallow 0 tag in packet) Mar frame size culoridod to 1522Pytes fallow 0 tag in packet) Mar frame size culoridod to 1522P	Data Processing	Store and Forward							
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Jumbo Frame 9.6KB IEEE 802.3ca Max frame size extended to 1522Bytes (allow Q-tag in packet) MAC Address Table 8K Memory Buffer 512K Bytes for packet buffer Device Memory 16M Bytes Flash ROM, 128M Bytes RAM Warning Message System Syslog, SMTP/ e-mail event message, alarm relay Alarm Relay Contact Relay outputs with current carrying capacity of 1A @24VDC Removable Terminal Block Provides 2 redundant power, alarm relay contact, 6 Pin Operating Temperature -10 ~ 60°C (IGS-804SM-SE) -40 ~ 75°C (IGS-804SM-SE) -40 ~ 75°C (IGS-804SM-SE) Operating Humidity 5% to 95% (Non-condensing) Storage Temperature -40 ~ 85°C Housing Rugged Metal, IP30 Protection and Fanless Dimensions 106 x 72 x 152mm (D x W x H) Weight 0.74kg Installation Mounting DIN Rail mounting or wall mounting (optional) Mustranty 5 years Certification Cit (EN55024, EN55032) EMI EN50121-4 Industrial Environment EN50121-4 Immunity for Heavy EN61000-6-2 Industrial Environment EN61000-6-2 </td <th></th> <td colspan="5"></td>									
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MAC Address Table8KMemory Buffer512K Bytes for packet bufferDevice Memory16M Bytes Flash ROM, 128M Bytes RAMWarning MessageSystem Syslog, SMTP/ e-mail event message, alarm relayAlarm Relay ContactRelay outputs with current carrying capacity of 1A @24VDCRemovable Terminal BlockProvides 2 redundant power, alarm relay contact, 6 PinOperating Temperature-10 ~ 60°C (IGS-804SM-SE) -40 ~ 75°C (IGS-804SM-SE)Operating Humidity5% to 95% (Non-condensing)Storage Temperature-40 ~ 85°CHousingRugged Metal, IP30 Protection and FanlessDimensions106 x 72 x 152mm (D x W x H)Other Yakg0.74kgInstallation MountingUIN Rail mounting (optional)5 yaars593.726 Hours (MIL-HDBK-217)Storage Temperature-5 yearsCertificationCC (EN55024, EN55032)Reinika (Electromagnetic)FCO Part 15 Subpart B Class A, CEInstallway TraffieIN50121-4Immunity for Heavy Industrial EnvironmentIN61000-6-2Emission for HeavyIN61000-6.4	IEEE 802.3ac	Max frame size extended to 15	522Bytes (allow Q-tag in pack	<et)< td=""></et)<>					
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-40 ~ 75°C (iGS-804SM-SÉ-E)Operating Humidity5% to 95% (Non-condensing)Storage Temperature-40 ~ 85°CHousingRugged Metal, IP30 Protection and FanlessDimensions106 x 72 x 152mm (D x W x H)Weight0.74kgInstallation MountingDIN Rail mounting or wall mounting (optional)S93,726 Hours (MIL-HDBK-217)S93,726 Hours (MIL-HDBK-217)CertificationEMCCertificationEMCCE (EN55024, EN55032)EMI Interference)Railway TrafficEN50121-4Immunity for Heavy Industrial EnvironmentEmission for HeavyEnvision for Heavy	Removable Terminal Block								
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Emission for Heavy ENGLOOD 6 4	,	EN50121-4							
	-								
		EN61000 6 4							

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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
	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
Hipot	DC 2.25KV for power to chassis ground, Ethernet ports to chassis ground
Surge Protection	4KV for UTP and Fiber ports
Safety	EN60950-1
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

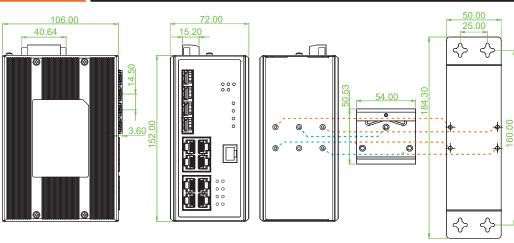
Software Specific	ations					
Topology						
VLAN	IEEE 802.1q VLAN, up to 4094 802.1Q VLAN ID					
	IEEE 802.1q VLAN, up to 4094 Groups					
	IEEE 802.1ad Q-in-Q					
	MAC-based VLAN, up to 256 entries					
	IP Subnet-based VLAN, up to 128 entries					
	Protocol-based VLAN(Ethernt, SNAP, LLC), up to 128 entries					
	VLAN Translation, up to 256 entries					
	Private VLAN for port isolation					
	GVRP (GARP VLAN Registration Protocal)					
	MVR (Multicast VLAN Registration)					
	Voice VLAN					
Link Aggregation	Static (Hash with SA, DA, IP, TCP/UDP port), Maximum trunk group : 6group					
(Port Aggregation Trunk)	Dynamic (IEEE 802.3ad LACP), Maximum trunk group : 6group					
	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 $\mu\text{-Ring},\mu\text{-Chain}$ 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	Recovery time <50ms					
(Ethernet Ring Protection)	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 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					
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						
Storm Control	For Unicast, Broadcast and Multicast					

IP Multicasting Fe	atures						
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						
ACI	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						
	Authentication						
HTTPS, HTTP	Supported						
SSL / SSH v2							
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							
SNMP	V1, V2c, V3						
sFlow	Supported						
Modbus TCP	Supported						
SW & 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						
BootP	Bootstrap Protocol Supported						
RARP	Reverse Address Resolution Protocol Supported						
DHCP	Server, Client, Relay, Relay option 82, Snooping						
IP Source Guard	Supported						
Port Mirroring	Supported						
Event Syslog	Syslog server (RFC3164)						
Warning Message	System syslog, e-mail, alarm relay						
DNS	Client, Proxy						
SyncE IEEE 1588 PTP V2	ITU-T G.8262 Sync Ethernet Supports 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						

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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		

Dimensions



Side View

Front View

Rear View D

DIN-Rail KitView Wall-Mount KitView (Optional Accessory)

Ordering Information

Model Name Mar		T .1.1	RJ45	SFP	Certification				
	Managed	Total Port	10/100/1000 Base-T(X)	100/1000 Base-X	EN60950-1	EN50121-4	EN61000-6-2 EN61000-6-4	CE FCC	Operating Temperature
IGS-804SM-SE	V	12	8	4	V	V	V	V	-10~60°C
IGS-804SM-SE-E	V	12	8	4	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

	MDR-40-48	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 48VDC, 40W, -20 ~ 70°C	
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8-5 www.ctcu.com / sales@ctcu.com / Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.