

The industrial PoE Ethernet switch IFS-803GSM-8PH24 has 8 Gigabit UTP ports, each port complies with 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 and high-speed transmission, fanless design, high MTBF, supports wide operating temperature, redundant power input, 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

- Regulated PoE output voltage (52VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100meter
- Provides 8 port IEEE 802.3af / 802.3at PoE output (30W per Port)
- 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
- μ-Ring for redundant cabling, recovery time<10ms in 250 devices
- 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

ww.ctcu.com / sales@ctcu.com

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
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



Industrial Managed FE PoE Switch

Standard			0					
Stalluaru	IEEE 802.1ad	Stacked VLANs, Q-in-						
	IEEE 802.1p	LAN Layer 2 QoS/CoS		rioritization				
	IEEE 802.1ab Link Layer Discovery Protocol (LLDP)							
Switch Architecture	IEEE 802.3az	EEE (Energy Efficient						
		g Fabric): 10.6Gbps (Fu	ll Wire-Speed)					
Data Processing	Store and Forward							
Flow Control	IEEE 802.3x for full duplex mode Back pressure for half duplex mode 8x 10/100Base-TX RJ-45 + 3x 100/1000Base-X SFP							
Network Connector		1						
		orts Auto-negotiation s	speed, Auto MDI/MDI-	X function				
De Elettere de ved & D. L. 4.E. veix	SFP ports suppors 10							
PoE standard & RJ-45 pin assignment	8x IEEE 802.3af /IEEE 802.3at PoE+ End-Span, Alternative A mode. Positive (V+) : RJ-45 pin 1, 2. Negative (V-) : RJ-45 pin 3, 6. Data (1,2,3,6)							
Console	RS-232 (RJ-45)							
Network Cable	UTP/STP Cat. 5e cab	le or above						
	EIA/TIA-568 100-ohn	n (100meter)						
Protocols	CSMA/CD							
Reverse Polarity Protection	1	input						
Overload Current Protection	Supported							
CPU Watch Dog	Supported							
Power Supply	Redundant Dual DC 2	24/48V (20~57VDC) Inpu	it power (Removable	Terminal Block)				
	, 0	ciency booster(94~97%	<u>/ </u>					
	Regulated PoE output voltage (52VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100 meter							
Power Consumption								
Power Consumption	Input Voltage	Total Power Consumption	Device Power Consumption	PoE Budget	Boost Efficiency			
Power Consumption	Input Voltage	Total Power Consumption 198.3W	Device Power Consumption 7.3W	PoE Budget	Boost Efficiency 94%			
Power Consumption		Consumption	Consumption		Efficiency			
	24VDC 48VDC	Consumption 198.3W 193.2W	Consumption 7.3W 7.9W	180W	Efficiency 94%			
Power Consumption PoE Power Budget LED	24VDC 48VDC Maximum PoE Outpu	Consumption 198.3W 193.2W It power budget 30W / F	Consumption 7.3W 7.9W Per Port, Total 180W	180W 180W	Efficiency 94% 97%			
PoE Power Budget	24VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre	Consumption 198.3W 193.2W It power budget 30W / F ren), Power 2 (Green), Fa	Consumption 7.3W 7.9W Per Port, Total 180W	180W 180W	Efficiency 94% 97%			
PoE Power Budget	24VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Act	Consumption 198.3W 193.2W It power budget 30W / F een), Power 2 (Green), Fa ive (Green)	Consumption 7.3W 7.9W Per Port, Total 180W	180W 180W	Efficiency 94% 97%			
PoE Power Budget	24VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Act SFP Slot: Link/Active	Consumption 198.3W 193.2W It power budget 30W / F een), Power 2 (Green), Fa ive (Green)	Consumption 7.3W 7.9W Per Port, Total 180W	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED	24VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Active SFP Slot: Link/Active PoE: ON (Green)	Consumption 198.3W 193.2W It power budget 30W / F een), Power 2 (Green), Fa ive (Green)	Consumption 7.3W 7.9W Per Port, Total 180W	180W 180W	Efficiency 94% 97%			
PoE Power Budget	24VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Act SFP Slot: Link/Active PoE: ON (Green) 9.6KB	Consumption 198.3W 193.2W It power budget 30W / F een), Power 2 (Green), Fa ive (Green) (Green)	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED Jumbo Frame	24VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Active PoE: ON (Green) 9.6KB Max frame size exten	Consumption 198.3W 193.2W It power budget 30W / F een), Power 2 (Green), Fa ive (Green)	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED Jumbo Frame IEEE 802.3ac MAC Address Table	24VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Active PoE: ON (Green) 9.6KB Max frame size exten 8K	Consumption 198.3W 193.2W It power budget 30W / F iven), Power 2 (Green), Fa ive (Green) (Green) ded to 1522Bytes (allow	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED Jumbo Frame IEEE 802.3ac MAC Address Table Memory Buffer	24VDC 48VDC Maximum PoE Outpu System: Power 1 (Gree UTP: 10/100 Link/Act SFP Slot: Link/Active PoE: ON (Green) 9.6KB Max frame size exten 8K 512K Bytes for packe	Consumption 198.3W 193.2W It power budget 30W / F een), Power 2 (Green), Fa ive (Green) (Green) ded to 1522Bytes (allow t buffer	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED Jumbo Frame IEEE 802.3ac MAC Address Table Memory Buffer Device Memory	24VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Active PoE: ON (Green) 9.6KB Max frame size exten 8K 512K Bytes for packe 16M Bytes Flash ROM	Consumption 198.3W 193.2W It power budget 30W / F een), Power 2 (Green), Fa ive (Green) (Green) ded to 1522Bytes (allow t buffer I, 128M Bytes RAM	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED Jumbo Frame IEEE 802.3ac MAC Address Table Memory Buffer Device Memory Warning Message	24VDC 48VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Active PoE: ON (Green) 9.6KB Max frame size exten 8K 512K Bytes for packe 16M Bytes Flash ROM System Syslog, SMTF	Consumption 198.3W 193.2W It power budget 30W / F een), Power 2 (Green), Fa ive (Green) (Green) ded to 1522Bytes (allow t buffer I, 128M Bytes RAM Y e-mail event message	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act v Q-tag in packet) e, alarm relay	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED Jumbo Frame IEEE 802.3ac MAC Address Table Memory Buffer Device Memory	24VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Act SFP Slot: Link/Active PoE: ON (Green) 9.6KB Max frame size exten 8K 512K Bytes for packe 16M Bytes Flash ROM System Syslog, SMTF Relay outputs with co	Consumption 198.3W 193.2W It power budget 30W / F en), Power 2 (Green), Fa ive (Green) (Green) ded to 1522Bytes (allow t buffer I, 128M Bytes RAM / e-mail event message urrent carrying capacity	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act v Q-tag in packet) e, alarm relay y of 1 A @24VDC	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED Jumbo Frame IEEE 802.3ac MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact	24VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Act SFP Slot: Link/Active PoE: ON (Green) 9.6KB Max frame size exten 8K 512K Bytes for packe 16M Bytes Flash ROM System Syslog, SMTF Relay outputs with co	Consumption 198.3W 193.2W it power budget 30W / F iven), Power 2 (Green), Fa ive (Green) (Green) ded to 1522Bytes (allow t buffer I, 128M Bytes RAM ? e-mail event message urrent carrying capacity t power, alarm relay con 5M-8PH24)	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act v Q-tag in packet) e, alarm relay y of 1 A @24VDC	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED Jumbo Frame IEEE 802.3ac MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact Removable Terminal Block	24VDC 48VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Active PoE: ON (Green) 9.6KB Max frame size exten 8K 512K Bytes for packe 16M Bytes Flash ROM System Syslog, SMTF Relay outputs with co Provides 2 redundan -10 ~ 60°C (IFS-803GS	Consumption 198.3W 193.2W it power budget 30W / F ive (oreen) (Green) (ded to 1522Bytes (allow t buffer I, 128M Bytes RAM / e-mail event message urrent carrying capacity t power, alarm relay con SM-8PH24) SM-8PH24)	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act v Q-tag in packet) e, alarm relay y of 1 A @24VDC	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED Jumbo Frame IEEE 802.3ac MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact Removable Terminal Block Operating Temperature	24VDC 48VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Act SFP Slot: Link/Active PoE: ON (Green) 9.6KB Max frame size exten 8K 512K Bytes for packe 16M Bytes Flash ROM System Syslog, SMTF Relay outputs with cu Provides 2 redundan -10 ~ 60°C (IFS-803GS -40 ~ 75°C (IFS-803GS	Consumption 198.3W 193.2W it power budget 30W / F ive (oreen) (Green) (ded to 1522Bytes (allow t buffer I, 128M Bytes RAM / e-mail event message urrent carrying capacity t power, alarm relay con SM-8PH24) SM-8PH24)	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act v Q-tag in packet) e, alarm relay y of 1 A @24VDC	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED Jumbo Frame IEEE 802.3ac MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact Removable Terminal Block Operating Temperature Operating Humidity	24VDC 48VDC 48VDC Maximum PoE Output System: Power 1 (Gree UTP: 10/100 Link/Active PoE: ON (Green) 9.6KB Max frame size exten 8K 512K Bytes for packe 16M Bytes Flash ROM System Syslog, SMTF Relay outputs with con Provides 2 redundan -10 ~ 60°C (IFS-803GS -40 ~ 75°C (IFS-803GS 5% to 95% (Non-con	Consumption 198.3W 193.2W it power budget 30W / F iven), Power 2 (Green), Fa ive (Green) (Green) ded to 1522Bytes (allow t buffer I, 128M Bytes RAM ?/ e-mail event message urrent carrying capacity t power, alarm relay con SM-8PH24) SM-8PH24) SM-8PH24) densing)	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act v Q-tag in packet) e, alarm relay y of 1 A @24VDC	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED Jumbo Frame IEEE 802.3ac MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact Removable Terminal Block Operating Temperature Operating Humidity Storage Temperature	24VDC 48VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Active PoE: ON (Green) 9.6KB Max frame size exten 8K 512K Bytes for packe 16M Bytes Flash ROM System Syslog, SMTF Relay outputs with co Provides 2 redundan -10 ~ 60°C (IFS-803GS -40 ~ 75°C (IFS-803GS 5% to 95% (Non-con -40 ~ 85°C	Consumption 198.3W 193.2W it power budget 30W / F iven), Power 2 (Green), Fa ive (Green) (Green) ded to 1522Bytes (allow t buffer l, 128M Bytes RAM / e-mail event message urrent carrying capacity t power, alarm relay con SM-8PH24) SM-8PH24) SM-8PH24) densing)	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act v Q-tag in packet) e, alarm relay y of 1 A @24VDC	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED Jumbo Frame IEEE 802.3ac MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact Removable Terminal Block Operating Temperature Operating Humidity Storage Temperature Housing	24VDC 48VDC 48VDC Maximum PoE Output System: Power 1 (Gree UTP: 10/100 Link/Act SFP Slot: Link/Active PoE: ON (Green) 9.6KB Max frame size exten 8K 512K Bytes for packe 16M Bytes Flash ROM System Syslog, SMTF Relay outputs with cu Provides 2 redundan -10 ~ 60°C (IFS-803GS -40 ~ 75°C (IFS-803GS -40 ~ 75°C (IFS-803GS -40 ~ 85°C Rugged Metal, IP30 P	Consumption 198.3W 193.2W it power budget 30W / F iven), Power 2 (Green), Fa ive (Green) (Green) ded to 1522Bytes (allow t buffer l, 128M Bytes RAM / e-mail event message urrent carrying capacity t power, alarm relay con SM-8PH24) SM-8PH24) SM-8PH24) densing)	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act v Q-tag in packet) e, alarm relay y of 1 A @24VDC	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED Jumbo Frame IEEE 802.3ac MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact Removable Terminal Block Operating Temperature Operating Humidity Storage Temperature Housing Dimensions	24VDC 48VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Act SFP Slot: Link/Active PoE: ON (Green) 9.6KB Max frame size exten 8K 512K Bytes for packe 16M Bytes Flash ROM System Syslog, SMTF Relay outputs with cu Provides 2 redundan -10 ~ 60°C (IFS-803GS -40 ~ 75°C (IFS-803GS -40 ~ 75°C (IFS-803GS 5% to 95% (Non-con -40 ~ 85°C Rugged Metal, IP30 P 106 x 72 x 152 mm (D 0.96kg	Consumption 198.3W 193.2W it power budget 30W / F iven), Power 2 (Green), Fa ive (Green) (Green) ded to 1522Bytes (allow t buffer l, 128M Bytes RAM / e-mail event message urrent carrying capacity t power, alarm relay con SM-8PH24) SM-8PH24) SM-8PH24) densing)	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act v Q-tag in packet) e, alarm relay y of 1 A @24VDC ntact, 6 Pin	180W 180W	Efficiency 94% 97%			
PoE Power Budget LED Jumbo Frame IEEE 802.3ac MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact Removable Terminal Block Operating Temperature Operating Humidity Storage Temperature Housing Dimensions Weight	24VDC 48VDC 48VDC Maximum PoE Outpu System: Power 1 (Gre UTP: 10/100 Link/Act SFP Slot: Link/Active PoE: ON (Green) 9.6KB Max frame size exten 8K 512K Bytes for packe 16M Bytes Flash ROM System Syslog, SMTF Relay outputs with cu Provides 2 redundan -10 ~ 60°C (IFS-803GS -40 ~ 75°C (IFS-803GS -40 ~ 75°C (IFS-803GS 5% to 95% (Non-con -40 ~ 85°C Rugged Metal, IP30 P 106 x 72 x 152 mm (D 0.96kg	Consumption 198.3W 193.2W it power budget 30W / F iven), Power 2 (Green), Fa ive (Green) (Green) ded to 1522Bytes (allow t buffer l, 128M Bytes RAM / e-mail event message urrent carrying capacity t power, alarm relay con SM-8PH24) SM-8PH24) SM-8PH24) densing) rotection, Fanless x W x H) r wall mounting (Option	Consumption 7.3W 7.9W Per Port, Total 180W ault (Amber), CPU Act v Q-tag in packet) e, alarm relay y of 1 A @24VDC ntact, 6 Pin	180W 180W	Efficiency 94% 97%			

Certification

EMC	CE
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
	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
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Software Specifications

Topology

ropology				
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			
	Private VLAN for port isolation			
	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)	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				
	QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number			



Industrial Managed FE PoE Switch

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
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
BOOTP	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	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



Industrial Managed FE PoE Switch

LLDP	Link Layer Discovery Protocol
(IEEE802.1ab)	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 consumptior
	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 limit by management Power feeding priority Total PoE power budget limitation: maximum 180W

Dimensions





www.ctcu.com / sales@ctcu.com



Ordering Information

		UTP	Fiber	PoE F	Port	Input Power		Certi	fication		
Model Name	Total Port	10/100 Base-TX	100/1000 Base-X	IEEE802.3 at/af	Power Budget	Redundant	UL60950-1	EN50121-4	NEMA-TS2	CE, FCC EN61000-6-2 EN61000-6-4	Operating Temperature
IFS-803GSM-8PH24	11	8	3 SFP	8	180W	24/48VDC	V	V	V	V	-10~60°C
IFS-803GSM-8PHE24	11	8	3 SFP	8	180W	24/48VDC	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
NDR-480-48	Industrial Power, Input 90 ~ 264VAC/127 ~ 370VDC, Output 48VDC, 480W, -20 ~ +70°C