IFS-A804GSM-8PH & IFS-A804GSM-8PH24

NEW

- 8x FE RJ45 + 4x 100/1000Base-X SFP with 8x PoE 240W, 48VDC
 8x FE RJ45 + 4x 100/1000Base-X SFP with 8x PoE 180W, 24/48VDC
- » Supports IEEE 1588 PTP V2
- Supports u-Ring, ERPS, EPS, MRP, MSTP, RSTP, STP for Redundant Cabling
- \gg Auto Checking and Auto Reset When PoE PD Fail
- EN50121-4, EN61000-6-2, EN61000-6-4, CE and F CC Certified
- ≫ 4KV Surge Protection for PoE, RJ45 and SFP Ports





The Industrial PoE Switch IFS-A804GSM-8PH is one of our new generation designs and comes with 8 Fast Ethernet ports, each Complies with IEEE802.3af/at up to 30W PoE+ standard. Equipped with 4 100/1000Mbps SFP slots for fiber optic connectivity Meet the requirements for extended transmission distance, fanless design, high MTBF, 4KV surge protection and supports wide temperature operation, 48VDC redundant power input, and is designed to comply with cybersecurity regulations. Suitable for heavy-duty applications in harsh environments such as industrial factory automation, data centers, Smart transportation systems, military and utility market applications beyond environmental conditions Commercial Product Specifications.

Features

- 48VDC (44~57VDC) redundant dual power input (IFS-A804GSM-8PH)
- 24/48VDC (20~57VDC) redundant dual power input (IFS-A804GSM-8PH24)
- Provides 8-port IEEE 802.3af / 802.3at PoE+ output (30W per port, total 240W) (IFS-A804GSM-8PH)
- Provides 8-port IEEE 802.3af / 802.3at PoE+ output (30W per port, total 180W) (IFS-A804GSM-8PH24)
- 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

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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)				
Switch Architecture	IEEE 802.3az EEE (Energy Efficient Ethernet)				
	Back-Plane (Switching Fabric): 9.6Gbps (Full Wire-Speed)				
Data Processing					
	IEEE 802.3x for full duplex mode Back pressure for half duplex mode				
Network Connector					
	RJ-45 UTP port supports Auto negotiation speed, Auto MDI/MDI-X function				
	SFP port supports 100/1000 dual speed with DDMI				
Console					
PoE Standard & RJ-45 Pin Assignment					
Network Cable	UTP/STP Cat. 5e cable or above				
	EIA/TIA-568 100-ohm (100meter)				
Protocols	CSMA/CD				
Reverse Polarity Protection	Supported for power input				
Overload Current Protection	Supported				
CPU Watch Dog					
Power Supply	IFS-A804GSM-8PH Redundant Dual power input (Removable terminal block) 48VDC (44~57VDC) (50~57V input is recommended for IEEE802.3at PoE+ applications) IFS-A804GSM-8PH24				
	Redundant Dual DC 24/48V (20~57VDC) Power input (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 1				
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Power Consumption	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 1 meter TBD				
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PoE Power Budget	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 1 meter TBD Maximum PoE Output power budget 30W/port, Total 240W (IFS-A804GSM-8PH) Maximum PoE Output power budget 30W/port, Total 180W (IFS-A804GSM-8PH24)				
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PoE Power Budget LED Jumbo Frame	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 1 meter TBD Maximum PoE Output power budget 30W/port, Total 240W (IFS-A804GSM-8PH) Maximum PoE Output power budget 30W/port, Total 180W (IFS-A804GSM-8PH24) System: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) UTP: 10/100 Link/Active (Green) SFP Slot: Link/Active (Green) PoE: ON (Green) 14K Bytes				
PoE Power Budget LED Jumbo Frame MAC Address Table	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 1 meter TBD Maximum PoE Output power budget 30W/port, Total 240W (IFS-A804GSM-8PH) Maximum PoE Output power budget 30W/port, Total 180W (IFS-A804GSM-8PH24) System: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) UTP: 10/100 Link/Active (Green) SFP Slot: Link/Active (Green) PoE: ON (Green) 14K Bytes 16K 1.5M Bytes for packet buffer				
PoE Power Budget LED Jumbo Frame MAC Address Table Memory Buffer	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 1 meter TBD Maximum PoE Output power budget 30W/port, Total 240W (IFS-A804GSM-8PH) Maximum PoE Output power budget 30W/port, Total 180W (IFS-A804GSM-8PH24) System: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) UTP: 10/100 Link/Active (Green) SFP Slot: Link/Active (Green) PoE: ON (Green) 14K Bytes 16K 1.5M Bytes for packet buffer 8G Bytes eMMC, 8G Bytes RAM				
PoE Power Budget LED Jumbo Frame MAC Address Table Memory Buffer Device Memory	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 1 meter TBD Maximum PoE Output power budget 30W/port, Total 240W (IFS-A804GSM-8PH) Maximum PoE Output power budget 30W/port, Total 180W (IFS-A804GSM-8PH24) System: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) UTP: 10/100 Link/Active (Green) PoE: ON (Green) 14K Bytes 16K 1.5M Bytes for packet buffer 8G Bytes eMMC, 8G Bytes RAM System Syslog, SMTP/ e-mail event message, alarm relay				
PoE Power Budget LED Jumbo Frame MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact	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 1 meter TBD Maximum PoE Output power budget 30W/port, Total 240W (IFS-A804GSM-8PH) Maximum PoE Output power budget 30W/port, Total 180W (IFS-A804GSM-8PH24) System: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) UTP: 10/100 Link/Active (Green) SFP Slot: Link/Active (Green) PoE: ON (Green) 14K Bytes 16K 1.5M Bytes for packet buffer 8G Bytes eMMC, 8G Bytes RAM System Syslog, SMTP/ e-mail event message, alarm relay				
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PoE Power Budget LED Jumbo Frame MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact 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 1 meter TBD Maximum PoE Output power budget 30W/port, Total 240W (IFS-A804GSM-8PH) Maximum PoE Output power budget 30W/port, Total 180W (IFS-A804GSM-8PH24) System: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) UTP: 10/100 Link/Active (Green) SFP Slot: Link/Active (Green) PoE: ON (Green) 14K Bytes 16K 1.5M Bytes for packet buffer 8G Bytes eMMC, 8G Bytes RAM System Syslog, SMTP/ e-mail event message, alarm relay Relay outputs with current carrying capacity of 1A @24VDC Provides 1 terminal block for Alarm relay, redundant power PWR1 and PWR2				
PoE Power Budget LED Jumbo Frame MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact 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 1 meter TBD Maximum PoE Output power budget 30W/port, Total 240W (IFS-A804GSM-8PH) Maximum PoE Output power budget 30W/port, Total 180W (IFS-A804GSM-8PH24) System: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) UTP: 10/100 Link/Active (Green) SFP Slot: Link/Active (Green) PoE: ON (Green) 14K Bytes 16K 1.5M Bytes for packet buffer 8G Bytes eMMC, 8G Bytes RAM System Syslog, SMTP/ e-mail event message, alarm relay Relay outputs with current carrying capacity of 1A @24VDC Provides 1 terminal block for Alarm relay, redundant power PWR1 and PWR2 -10 ~ 60°C (IFS-A804GSM-8PH4)				
PoE Power Budget LED LED Jumbo Frame MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact Removable Terminal Block Operating Temperature	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 1 meter TBD Maximum PoE Output power budget 30W/port, Total 240W (IFS-A804GSM-8PH) Maximum PoE Output power budget 30W/port, Total 180W (IFS-A804GSM-8PH24) System: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) UTP: 10/100 Link/Active (Green) SFP Slot: Link/Active (Green) PoE: ON (Green) 14K Bytes 16K 1.5M Bytes for packet buffer 8G Bytes eMMC, 8G Bytes RAM System Syslog, SMTP/ e-mail event message, alarm relay Relay outputs with current carrying capacity of 1A @24VDC Provides 1 terminal block for Alarm relay, redundant power PWR1 and PWR2 -10 ~ 60°C (IFS-A804GSM-8PHE, IFS-A804GSM-8PHE24) -40 ~ 75°C (IFS-A804GSM-8PHE, IFS-A804GSM-8PHE24)				
PoE Power Budget LED Jumbo Frame MAC Address Table Memory Buffer Device Memory Warning Message Alarm Relay Contact Removable Terminal Block Operating Temperature	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 1 meter TBD Maximum PoE Output power budget 30W/port, Total 240W (IFS-A804GSM-8PH) Maximum PoE Output power budget 30W/port, Total 180W (IFS-A804GSM-8PH24) System: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) UTP: 10/100 Link/Active (Green) SFP Slot: Link/Active (Green) PoE: ON (Green) 14K Bytes 16K 1.5M Bytes for packet buffer 8G Bytes eMMC, 8G Bytes RAM System Syslog, SMTP/ e-mail event message, alarm relay Relay outputs with current carrying capacity of 1A @24VDC Provides 1 terminal block for Alarm relay, redundant power PWR1 and PWR2 -10 ~ 60°C (IFS-A804GSM-8PH, IFS-A804GSM-8PH24) -40 ~ 75°C (IFS-A804GSM-8PHE, IFS-A804GSM-8PH24) -40 ~ 85°C				
PoE Power Budget LED LED Jumbo Frame MAC Address Table Memory Buffer Device Memory Uevice Memory Warning Message Alarm Relay Contact Removable Terminal Block Operating Temperature	Built-in very high efficiency booster(9497%) to rise up 52VDC for PoE output Regulated PoE output voltage (52VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 1 meter TBD Maximum PoE Output power budget 30W/port, Total 240W (IFS-A804GSM-8PH) Maximum PoE Output power budget 30W/port, Total 180W (IFS-A804GSM-8PH24) System: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) UTP: 10/100 Link/Active (Green) SFP Slot: Link/Active (Green) PoE: ON (Green) 14K Bytes 16K 1.5M Bytes for packet buffer 8G Bytes eMMC, 8G Bytes RAM System Syslog, SMTP/ e-mail event message, alarm relay Relay outputs with current carrying capacity of 1A @24VDC Provides 1 terminal block for Alarm relay, redundant power PWR1 and PWR2 -10 ~ 60°C (IFS-A804GSM-8PH, IFS-A804GSM-8PH24) -40 ~ 75°C (IFS-A804GSM-8PH, IFS-A804GSM-8PH24) -40 ~ 85°C Rugged Metal, IP30 Protection, Fanless				
PoE Power Budget LED LED Jumbo Frame MAC Address Table Memory Buffer Device Memory Uarning Message Alarm Relay Contact Warning Message Alarm Relay Contact Operating Temperature Operating Temperature Storage Temperature Housing	Built-in very high efficiency booster(9497%) to rise up 52VDC for PoE output Regulated PoE output voltage (52VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 1 meter TBD Maximum PoE Output power budget 30W/port, Total 240W (IFS-A804GSM-8PH) Maximum PoE Output power budget 30W/port, Total 180W (IFS-A804GSM-8PH24) System: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) UTP: 10/100 Link/Active (Green) SFP Slot: Link/Active (Green) PoE: ON (Green) 14K Bytes 16K 1.5M Bytes for packet buffer 8G Bytes eMMC, 8G Bytes RAM System Syslog, SMTP/ e-mail event message, alarm relay Relay outputs with current carrying capacity of 1A @24VDC Provides 1 terminal block for Alarm relay, redundant power PWR1 and PWR2 -10 ~ 60°C (IFS-A804GSM-8PH2, IFS-A804GSM-8PH24) -40 ~ 75°C (IFS-A804GSM-8PH2, IFS-A804GSM-8PH24) -40 ~ 85°C Rugged Metal, IP30 Protection, Fanless TBD (D x W x H)				
PoE Power Budget LED LED Jumbo Frame MAC Address Table Memory Buffer Device Memory Uarning Message Alarm Relay Contact Warning Message Alarm Relay Contact Operating Temperature Operating Temperature Storage Temperature Housing	Built-in very high efficiency booster(9497%) to rise up 52VDC for PoE output Regulated PoE output voltage (52VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 1 meter TBD Maximum PoE Output power budget 30W/port, Total 240W (IFS-A804GSM-8PH) Maximum PoE Output power budget 30W/port, Total 180W (IFS-A804GSM-8PH24) System: Power 1 (Green), Power 2 (Green), Fault (Amber), CPU Act (Green), Ring Master (Yellow) UTP: 10/100 Link/Active (Green) SFP Slot: Link/Active (Green) PoE: ON (Green) 14K Bytes 16K 1.5M Bytes for packet buffer 8G Bytes eMMC, 8G Bytes RAM System Syslog, SMTP/ e-mail event message, alarm relay Relay outputs with current carrying capacity of 1A @24VDC Provides 1 terminal block for Alarm relay, redundant power PWR1 and PWR2 -10 ~ 60°C (IFS-A804GSM-8PH, IFS-A804GSM-8PH24) -40 ~ 75°C (FS-A804GSM-8PH, IFS-A804GSM-8PH24) -40 ~ 75°C (FS-A804GSM-8PHE, IFS-A804GSM-8PH24) -40 ~ 85°C Rugged Metal, IP30 Protection, Fanless				

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MTBF	TBD (IFS-A804GSM-8PH)			
(MIL-HDBK-217)	TBD (IFS-A804GSM-8PH24)			
Warranty	5 years			
Certification				
EMC	CE (EN55032, EN55035)			
EMI (Electromagnetic Interference)	netic ence) FCC Part 15 Subpart B Class A, CE			
Railway Traffic	EN50121-4			
Immunity for Heavy Industrial Environment	vy nt 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			
Surge Protection	4KV for PoE, UTP and Fiber ports			
Shock	IEC 60068-2-27			
Freefall	IEC 60068-2-31			
Vibration	IEC 60068-2-6			

Software Specific	ations				
Topology					
	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 Protocol)				
	MVR (Multicast VLAN Registration)				
	Voice VLAN				
Link Aggregation	Static (Hash with SA, DA, IP, TCP/UDP port), up to 6 trunk group				
(Port Trunk)	Dynamic (IEEE 802.3ad LACP), up to 6 trunk group				
Spanning Tree	IEEE 802.1d STP, IEEE 802.1w RSTP, IEEE 802.1s MSTP				
MRP (IEC62439-2)	Supported				
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)					
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				

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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 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			
IEEE 002.1X				
4.01	MAC-Based			
AGL	Number of rules : up to 256 entries for L2 / L3 / L4			
	L2 / L3 / L4 L2 : Mac address SA/DA/VLAN			
	L3: IP address SA/DA, Subnet			
D 4 D U 0	L4: TCP/UDP			
	Authentication & Accounting			
	Authentication, Authorization and Accounting			
HTTPS, HTTP				
SSL / SSH v2	Supported			
User Name Password Authentication	Local Authentication			
	Remote Authentication (via RADIUS / TACACS+)			
Management Interface Access Filtering	Web, Telnet / SSH, CLI USB console			
Management Featu	res			
CLI	Cisco® like CLI			
Web UI	Supported			
	Server			
SNMP	V1, V2c, V3			
sFlow	Supported			
Modbus/TCP	Supports for management and monitoring			
SW & Configuration Upgrade	SFTP, TFTP, HTTP, FTP			
on a configuration opgrado	Redundant firmware in case of upgrade failure			
FTP client	Supports for upload/download configuration			
RMON				
MIB	RMON I (1, 2, 3, 9 group), RMON II RFC1213 MIB II, Private MIB			
UPnP	Supported			
BOOTP	Supported			
DHCPv4	Server, Client, Relay, Relay option 82, Snooping			
ARP Inspection	Supported			
IP Source Guard	Supported			
Port Mirroring				
E 10 1	SVEIDE CONVER (PEL 2167) (SUBBORT / CONVER)			
Event Syslog	Syslog server (RFC3164) (Support 4 server)			
Warning Message	System syslog, e-mail, alarm relay			
Warning Message DNS	System syslog, e-mail, alarm relay Client, Proxy			
Warning Message	System syslog, e-mail, alarm relay Client, Proxy Support 5 operating mode in each port :			
Warning Message DNS IEEE1588 PTP V2	System syslog, e-mail, alarm relay Client, Proxy Support 5 operating mode in each port : Ordinary-Boundary, Peer to Peer Transparent Clock, End to End Transparent Clock, Master and Slave			
Warning Message DNS	System syslog, e-mail, alarm relay Client, Proxy Support 5 operating mode in each port :			

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				
IPv6 Source Guard	Supported				
DHCPv6	Relay, Snooping				
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				
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 (IFS-A804GSM-8PH) Total PoE power budget limitation: maximum 180W (IFS-A804GSM-8PH24)				

Ordering Information

-		RJ45	SFP	Pol	E	Power Input	C	Certification		
Model Name	Total Port	10/100 Base-TX	100/1000 Base-X	IEEE802.3 at/af	Power Budget	Redundant	EN50121-4	EN61000-6-2 EN61000-6-4	CE FCC	Operating Temperature
IFS-A804GSM-8PH	12	8	4	8	240W	48VDC	V	V	V	-10~60°C
IFS-A804GSM-8PHE	12	8	4	8	240W	48VDC	V	V	V	-40~75°C
IFS-A804GSM-8PH24	12	8	4	8	180W	24/48VDC	V	V	V	-10~60°C
IFS-A804GSM-8PHE24	12	8	4	8	180W	24/48VDC	V	V	V	-40~75°C

Optional Accessories

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
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