IFS+803GSM-8PH & IFS+803GSM-8PH24



- **♦** 8x FE RJ45 + 3x 100/1000Base-X SFP with 8x PoE 240W, 48VDC **▶** 8x FE 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 IFS+803GSM-8PH and IFS+803GSM-8PH24 has 8 Gigabit UTP ports and each port complies with the IEEE802.3af/at up to 30W PoE+ standard. Equipped with 3 100/1000Mbps 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 IFS+803GSM-8PH, and 24/48VDC IFS+803GSM-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 (IFS+803GSM-8PH)
- 24/48VDC (20~57VDC) redundant dual power input (IFS++803GSM-8PH24)
- Provides 8-port IEEE 802.3af / 802.3at PoE+ output (30W per port, total 240W) (IFS+803GSM-8PH)
- Provides 8-port IEEE 802.3af / 802.3at PoE+ output (30W per port, total 180W) (IFS+803GSM-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)
- ${\color{red} \bullet}\,\mu\text{-Ring}$ 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 | | |
|-----------------------|-----------------------|---|
| Standard | IEEE 802.3 | 10Base-T 10Mbit/s Ethernet |
| | IEEE 802.3u | 100Base-TX, 100Base-FX, Fast Ethernet |
| | 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 |

Industrial Managed FF PoF Switch

| | Industria | i manageu | | 01 0111101 | | |
|---|---|--|--|--|--|---|
| Standard | IEEE 802.3ac | Max frame size ex | tended to | 1522Bytes | | |
| | IEEE 802.3ad Link aggregation for parallel links with LACP (Link Aggregation Control Protocol) | | | | | |
| | IEEE 802.3x | Flow control for Fu | | , | 00 0 | , |
| | IEEE 802.1ad | Stacked VLANs, C | | | | |
| | IEEE 802.1p | | | ocol for Traffic Prioritiz | ation | |
| | IEEE 802.1ab | Link Layer Discove | | | | |
| | IEEE 802.3az | EEE (Energy Efficie | | , , | | |
| Switch Architecture | | Back-Plane (Switching Fabric): 7.6Gbps (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 | | | | | | |
| | RJ-45 UTP port sup | ports Auto negotiation spe | ed, Auto | MDI/MDI-X function | | |
| | | 00/1000M dual speed wit | | | | |
| Console | RS-232 (RJ-45) | · | | | | |
| PoE standard & RJ-45 Pin Assignment | 8x IEEE 802.3af /IEEE 802.3at PoE+ 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 cal | ble or above | | | | |
| | EIA/TIA-568 100-oh | hm (100meter) | | | | |
| Protocols | CSMA/CD | | | | | |
| Reverse Polarity Protection | Supported for power | Supported for power input | | | | |
| Overload Current Protection | Supported | | | | | |
| CPU Watch Dog | Supported | | | | | |
| Power Supply | IGS+803SM-8PH | ut nower (Removable term | inal block) | 48VDC (44~57VDC) | | |
| | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effi Regulated PoE outpu | ut power (Removable term commended for IEEE802.3 24 24/48V (20~57VDC) Inpu iciency booster(94~97%) ut voltage (52VDC) to stat | Bat PoE+ a at power (F ato rise up | applications) Removable Terminal B 52VDC for PoE outpu | llock) t | ower distance to |
| Power Supply | IGS+803SM-8PH Redundant Dual input (50~57V input is rect IGS+803SM-8PH2 Redundant Dual DC Built-in very high effit Regulated PoE output 100meter | commended for IEEE802.3 24 24/48V (20~57VDC) Inpuiciency booster(94~97%) | Bat PoE+ a at power (F ato rise up | applications) Removable Terminal B 52VDC for PoE outpu | llock) t | ower distance to |
| | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effi Regulated PoE outpu 100meter IFS+803GSM-8PH | commended for IEEE802.3 24 24/48V (20~57VDC) Inpuiciency booster(94~97%) ut voltage (52VDC) to stal | at PoE+ and the power (Figure 1) and the power (Figure 2) and the power | applications) Removable Terminal B 52VDC for PoE outpu device, and guarantee | llock) t e delivery PoE p | |
| Power Supply | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effi Regulated PoE outpu 100meter IFS+803GSM-8PH Input Voltage | commended for IEEE802.3 24 24/48V (20~57VDC) Inpuiciency booster(94~97%) ut voltage (52VDC) to state | at PoE+ and the power (Figure 1) and the power (Figure 2) and the power | applications) Removable Terminal B 52VDC for PoE outpu device, and guarantee Device Power Co | olock) t e delivery PoE po nsumption | PoE Budget |
| Power Supply | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effi Regulated PoE outpu 100meter IFS+803GSM-8PH Input Voltage 50 VDC | commended for IEEE802.3 24 24/48V (20~57VDC) Inpuciency booster(94~97%) at voltage (52VDC) to state Total Power Consum 252.5W | at PoE+ and the power (Figure 1) and the power (Figure 2) and the power | applications) Removable Terminal B 52VDC for PoE outpu device, and guarantee | olock) t e delivery PoE po nsumption | |
| Power Supply | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effi Regulated PoE outpu 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 | commended for IEEE802.3 24 24/48V (20~57VDC) Inputiciency booster(94~97%) at voltage (52VDC) to state Total Power Consum 252.5W | Bat PoE+ and the power (Figure 1) and the power (Figure 2) and the powe | applications) Removable Terminal B 52VDC for PoE outpu device, and guarantee Device Power Co 12.9W | lock) t e delivery PoE p nsumption | PoE Budget 240W |
| Power Supply | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effice Regulated PoE outpu 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 Input Voltage 1 | commended for IEEE802.3 24 24/48V (20~57VDC) Inpuiciency booster(94~97%) ut voltage (52VDC) to state Total Power Consum 252.5W 4 Total Power Consumption | Bat PoE+ and the power (Figure 1) and the power (Figure 2) and the powe | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption | llock) t e delivery PoE possible nsumption PoE Budget | PoE Budget 240W Boost Efficiency |
| Power Supply | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effir Regulated PoE outpu 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 Input Voltage 124VDC | commended for IEEE802.3 24 24/48V (20~57VDC) Inpuciency booster(94~97%) at voltage (52VDC) to state Total Power Consum 252.5W 4 Total Power Consumption 191.2W | Bat PoE+ and the power (Figure 1) and the power (Figure 2) and the powe | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption 7.8W | llock) t delivery PoE properties nsumption PoE Budget 180W | PoE Budget 240W Boost Efficiency 97% |
| Power Supply Power Consumption | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effice Regulated PoE output 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 Input Voltage 1 24VDC 48VDC 48VDC | commended for IEEE802.3 24 24/48V (20~57VDC) Inputiciency booster(94~97%) ut voltage (52VDC) to state Total Power Consum 252.5W 4 Total Power Consumption 191.2W 193.4W | at PoE+ at power (For ise up billize PoE) ption Device | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption 7.8W 8.9W | olock) t delivery PoE po nsumption PoE Budget 180W 180W | PoE Budget 240W Boost Efficiency |
| Power Supply | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effit Regulated PoE outpu 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 Input Voltage 1 24VDC 48VDC Maximum PoE Outpu | commended for IEEE802.3 24 24/48V (20~57VDC) Inpucion process in the control of | Bat PoE+ at power (Fito rise up billize PoE) ption Device | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption 7.8W 8.9W DW (IFS+803GSM-8F | llock) t delivery PoE p nsumption PoE Budget 180W 180W | PoE Budget 240W Boost Efficiency 97% |
| Power Supply Power Consumption PoE Power Budget | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effir Regulated PoE outpu 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 Input Voltage 124VDC 48VDC Maximum PoE Outpu Maximum PoE Outpu | commended for IEEE802.3 24 24/48V (20~57VDC) Inputiciency booster(94~97%) aut voltage (52VDC) to state Total Power Consumm 252.5W 4 Total Power Consumption 191.2W 193.4W ut power budget 30W/portut power budget 30W/po | at PoE+ at power (Fit | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption 7.8W 8.9W OW (IFS+803GSM-8F) OW (IFS+803GSM-8F) | PH 24) | PoE Budget 240W Boost Efficiency 97% 97% |
| Power Supply Power Consumption | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effir Regulated PoE outpu 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 Input Voltage 124VDC 48VDC Maximum PoE Outpu Maximum PoE Outpu | commended for IEEE802.3 24 24/48V (20~57VDC) Inpucion process in the control of | at PoE+ at power (Fit | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption 7.8W 8.9W OW (IFS+803GSM-8F) OW (IFS+803GSM-8F) | PH 24) | PoE Budget 240W Boost Efficiency 97% 97% |
| Power Supply Power Consumption PoE Power Budget | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effir Regulated PoE outpu 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 Input Voltage 124VDC 48VDC Maximum PoE Outpu Maximum PoE Outpu | commended for IEEE802.3 24 24/48V (20~57VDC) Inputiciency booster(94~97%) at voltage (52VDC) to state Total Power Consummation 191.2W 193.4W ut power budget 30W/portreen), Power 2 (Green), Fare | at PoE+ at power (Fit | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption 7.8W 8.9W OW (IFS+803GSM-8F) OW (IFS+803GSM-8F) | PH 24) | PoE Budget 240W Boost Efficiency 97% 97% |
| Power Supply Power Consumption PoE Power Budget | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effice Regulated PoE output 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 Input Voltage 1 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gr | commended for IEEE802.3 24 24/48V (20~57VDC) Inputiciency booster (94~97%) at voltage (52VDC) to state Total Power Consumm 252.5W 4 Total Power Consumption 191.2W 193.4W ut power budget 30W/portut power budget 30W/portut power budget 30W/portut power 2 (Green), Fauctive (Green) | at PoE+ at power (Fit | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption 7.8W 8.9W OW (IFS+803GSM-8F) OW (IFS+803GSM-8F) | PH 24) | PoE Budget 240W Boost Efficiency 97% 97% |
| Power Supply Power Consumption PoE Power Budget | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effir Regulated PoE outpu 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 Input Voltage 1 24VDC 48VDC 48VDC Maximum PoE Outpu Maximum PoE Outpu System: Power 1 (Gr | commended for IEEE802.3 24 24/48V (20~57VDC) Inputiciency booster (94~97%) at voltage (52VDC) to state Total Power Consumm 252.5W 4 Total Power Consumption 191.2W 193.4W ut power budget 30W/portut power budget 30W/portut power budget 30W/portut power 2 (Green), Fauctive (Green) | at PoE+ at power (Fit | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption 7.8W 8.9W OW (IFS+803GSM-8F) OW (IFS+803GSM-8F) | PH 24) | PoE Budget 240W Boost Efficiency 97% 97% |
| Power Supply Power Consumption PoE Power Budget | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effir Regulated PoE outpu 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 Input Voltage 124VDC 48VDC Maximum PoE Outpu Maximum PoE Outpu System: Power 1 (Gr UTP: 10/100 Link/A | commended for IEEE802.3 24 24/48V (20~57VDC) Inputiciency booster (94~97%) at voltage (52VDC) to state Total Power Consumm 252.5W 4 Total Power Consumption 191.2W 193.4W ut power budget 30W/portut power budget 30W/portut power budget 30W/portut power 2 (Green), Fauctive (Green) | at PoE+ at power (Fit | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption 7.8W 8.9W OW (IFS+803GSM-8F) OW (IFS+803GSM-8F) | PH 24) | PoE Budget 240W Boost Efficiency 97% 97% |
| Power Consumption PoE Power Budget LED | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effice Regulated PoE output 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH22 Input Voltage 1 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gr UTP: 10/100 Link/A SFP Slot: Link/Active PoE: ON (Green) 9.6KB | commended for IEEE802.3 24 24/48V (20~57VDC) Inputiciency booster (94~97%) at voltage (52VDC) to state Total Power Consumm 252.5W 4 Total Power Consumption 191.2W 193.4W ut power budget 30W/portut power budget 30W/portut power budget 30W/portut power 2 (Green), Fauctive (Green) | Bat PoE+ and the power (Figure 1) and the powe | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption 7.8W 8.9W OW (IFS+803GSM-8F) OW (IFS+803GSM-8F), CPU Act (Green), R | PH 24) | PoE Budget 240W Boost Efficiency 97% 97% |
| Power Supply Power Consumption PoE Power Budget LED Jumbo Frame | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effice Regulated PoE output 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH22 Input Voltage 1 24VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gr UTP: 10/100 Link/A SFP Slot: Link/Active PoE: ON (Green) 9.6KB | commended for IEEE802.3 24 24/48V (20~57VDC) Inputiciency booster(94~97%) at voltage (52VDC) to state Total Power Consummon 252.5W 4 Total Power Consumption 191.2W 193.4W ut power budget 30W/portut power budget 30W/portu | Bat PoE+ and the power (Figure 1) and the powe | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption 7.8W 8.9W OW (IFS+803GSM-8F) OW (IFS+803GSM-8F), CPU Act (Green), R | PH 24) | PoE Budget 240W Boost Efficiency 97% 97% |
| Power Consumption PoE Power Budget LED Jumbo Frame IEEE802.3ac | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effir Regulated PoE output 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 Input Voltage 124VDC 48VDC 48VDC Maximum PoE Output Maximum PoE Output System: Power 1 (Gr UTP: 10/100 Link/A SFP Slot: Link/Active PoE: ON (Green) 9.6KB Max frame size exter | commended for IEEE802.3 24 24/48V (20~57VDC) Inpuciency booster(94~97%) at voltage (52VDC) to state Total Power Consum 252.5W 4 Total Power Consumption 191.2W 193.4W ut power budget 30W/porrueen), Power 2 (Green), Factive (Green) e (Green) Inded to 1522Bytes (allow) | Bat PoE+ and the power (Figure 1) and the powe | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption 7.8W 8.9W OW (IFS+803GSM-8F) OW (IFS+803GSM-8F), CPU Act (Green), R | PH 24) | PoE Budget 240W Boost Efficiency 97% 97% |
| Power Supply Power Consumption PoE Power Budget LED Jumbo Frame IEEE802.3ac MAC Address Table | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effir Regulated PoE outpu 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 Input Voltage 1 24VDC 48VDC 48VDC Maximum PoE Outpu Maximum PoE Outpu Maximum PoE Outpu System: Power 1 (Gr UTP: 10/100 Link/A SFP Slot: Link/Active PoE: ON (Green) 9.6KB Max frame size exter 8K 512K Bytes for pack | commended for IEEE802.3 24 24/48V (20~57VDC) Inpuciency booster(94~97%) at voltage (52VDC) to state Total Power Consum 252.5W 4 Total Power Consumption 191.2W 193.4W ut power budget 30W/porrueen), Power 2 (Green), Factive (Green) e (Green) Inded to 1522Bytes (allow) | Bat PoE+ and the power (Figure 1) and the powe | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption 7.8W 8.9W OW (IFS+803GSM-8F) OW (IFS+803GSM-8F), CPU Act (Green), R | PH 24) | PoE Budget 240W Boost Efficiency 97% 97% |
| Power Supply Power Consumption PoE Power Budget LED Jumbo Frame IEEE802.3ac MAC Address Table Memory Buffer | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effir Regulated PoE output 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 Input Voltage 124VDC 48VDC Maximum PoE Output Maximum PoE Output Maximum PoE Output System: Power 1 (Gr UTP: 10/100 Link/A SFP Slot: Link/Active PoE: ON (Green) 9.6KB Max frame size exter 8K 512K Bytes for pack 16M Bytes Flash RO | commended for IEEE802.3 24 24/48V (20~57VDC) Inputiciency booster(94~97%) aut voltage (52VDC) to state of the voltage of the volta | at PoE+ at power (Fito rise up billize PoE) ption Device t,Total 240 t,Total 180 ult (Ambel | Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co 12.9W Power Consumption 7.8W 8.9W DW (IFS+803GSM-8F) DW (IFS+803GSM-8F) CPU Act (Green), R | PH 24) | PoE Budget 240W Boost Efficiency 97% 97% |
| Power Supply Power Consumption PoE Power Budget LED Jumbo Frame IEEE802.3ac MAC Address Table Memory Buffer Device Memory | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effice Regulated PoE output 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH24 Input Voltage 1 24VDC 48VDC 48VDC Maximum PoE Output Maximum PoE Output Maximum PoE Output Maximum PoE Output System: Power 1 (Gr UTP: 10/100 Link/A SFP Slot: Link/Active PoE: ON (Green) 9.6KB Max frame size exter 8K 512K Bytes for pack 16M Bytes Flash RO System Syslog, SMT | commended for IEEE802.3 24 24/48V (20~57VDC) Inputiciency booster(94~97%) aut voltage (52VDC) to state of the state of t | Bat PoE+ a It power (Fito rise up oblice PoE) ption Device 1 t, Total 240 t, Total 180 ult (Amberland) Q-tag in police pol | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co | PH 24) | PoE Budget 240W Boost Efficiency 97% 97% |
| Power Supply Power Consumption PoE Power Budget LED Jumbo Frame IEEE802.3ac MAC Address Table Memory Buffer Device Memory Warning Message | IGS+803SM-8PH Redundant Dual inpu (50~57V input is rec IGS+803SM-8PH2 Redundant Dual DC Built-in very high effir Regulated PoE outpu 100meter IFS+803GSM-8PH Input Voltage 50 VDC IFS+803GSM-8PH22 Input Voltage 124VDC 48VDC 48VDC Maximum PoE Outpu Maximum PoE Outpu Maximum PoE Outpu System: Power 1 (Gr UTP: 10/100 Link/A SFP Slot: Link/Active PoE: ON (Green) 9.6KB Max frame size exter 8K 512K Bytes for pack 16M Bytes Flash RO System Syslog, SMT Relay outputs with cr | commended for IEEE802.3 24 24/48V (20~57VDC) Inputiciency booster(94~97%) at voltage (52VDC) to state to the voltage (52VDC) to state to voltage (52VDC) to vo | alarm relation at PoE+ and PoE | applications) Removable Terminal B 52VDC for PoE output device, and guarantee Device Power Co | PH 24) | PoE Budget 240W Boost Efficiency 97% 97% |

Operating Humidity 5% to 95% (Non-condensing)

Industrial Managed FE PoE Switch

| 1 | J | , |
|---|---|---|

| 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 (IFS+803GSM-8PH) |
| | 0.86kg (IFS+803GSM-8PH24) |
| Installation Mounting | DIN Rail mounting or wall mounting (Optional) |
| MTBF | 487,189 Hours (IFS+803GSM-8PH) |
| (MIL-HDBK-217) | 528,753 Hours (IFS+803GSM-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 |
| | EN61000-4-6 (CS) Level 3, Criteria A |
| | EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A |
| Safety | · |
| Surge Protection | 4KV for PoE, UTP and Fiber ports |
| Shock | IEC 60068-2-27 |
| Freefall | IEC 60068-2-32 |
| Vibration | IEC 60068-2-6 |
| | |

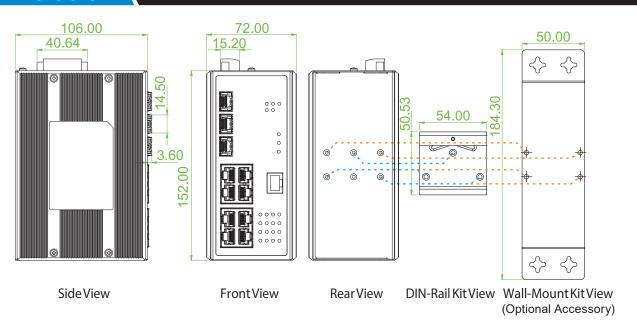
Software Specifications

| Surtware 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 |
| | 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 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 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 |
| 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 / Port shaper |
| iffServ (RF 2474) Remarking | |
| Storm Control | For Unicast, Broadcast and Multicast |
| IP Multicasting Fea | 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 |
| 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 |
| | 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 Interface Access Filtering Management Featu | |
| Access Filtering | |
| Access Filtering Management Featu | res |
| Access Filtering Management Featul CLI | res Cisco® like CLI |
| Access Filtering Management Featu CLI Web UI | Cisco® like CLI Supported |
| Access Filtering Management Feature CLI Web UI Telnet | Cisco® like CLI Supported Server |
| Access Filtering Management Feature CLI Web UI Telnet SNMP | Cisco® like CLI Supported Server V1, V2c, V3 |
| Access Filtering Management Feature CLI Web UI Telnet SNMP sFlow | Cisco® like CLI Supported Server V1, V2c, V3 Supported |
| Access Filtering Management Feature CLI Web UI Telnet SNMP sFlow Modbus/TCP | Cisco® like CLI Supported Server V1, V2c, V3 Supported Supported Supported Supports for management and monitoring |
| Access Filtering Management Feature CLI Web UI Telnet SNMP sFlow Modbus/TCP | Cisco® like CLI Supported Server V1, V2c, V3 Supported Supports for management and monitoring TETP, HTTP |
| Access Filtering Management Feature CLI Web UI Telnet SNMP sFlow Modbus/TCP SW & Configuration Upgrade | Cisco® like CLI Supported Server V1, V2c, V3 Supported Supported Supported Supports for management and monitoring TFTP, HTTP Redundant firmware in case of upgrade failure |
| Access Filtering Management Feature CLI Web UI Telnet SNMP sFlow Modbus/TCP SW & Configuration Upgrade FTP client | Cisco® like CLI Supported Server V1, V2c, V3 Supported Supports for management and monitoring TFTP, HTTP Redundant firmware in case of upgrade failure Supports for upload/download configuration |
| Access Filtering Management Feature CLI Web UI Telnet SNMP sFlow Modbus/TCP SW & Configuration Upgrade FTP client RMON | Cisco® like CLI Supported Server V1, V2c, V3 Supported Supports for management and monitoring TFTP, HTTP Redundant firmware in case of upgrade failure Supports for upload/download configuration RMON I (1, 2, 3, 9 group), RMON II |
| Access Filtering Management Feature CLI Web UI Telnet SNMP sFlow Modbus/TCP GW & Configuration Upgrade FTP client RMON MIB | Cisco® like CLI Supported Server V1, V2c, V3 Supported Supports for management and monitoring TFTP, HTTP Redundant firmware in case of upgrade failure Supports for upload/download configuration RMON I (1, 2, 3, 9 group), RMON II RFC1213 MIB II, Private MIB |
| Access Filtering Management Feature CLI Web UI Telnet SNMP sFlow Modbus/TCP SW & Configuration Upgrade FTP client RMON MIB UPnP | Cisco® like CLI Supported Server V1, V2c, V3 Supported Supports for management and monitoring TFTP, HTTP Redundant firmware in case of upgrade failure Supports for upload/download configuration RMON I (1, 2, 3, 9 group), RMON II RFC1213 MIB II, Private MIB Supported |
| Access Filtering Management Feature CLI Web UI Telnet SNMP sFlow Modbus/TCP SW & Configuration Upgrade FTP client RMON MIB UPnP BOOTP | Cisco® like CLI Supported Server V1, V2c, V3 Supported Supports for management and monitoring TFTP, HTTP Redundant firmware in case of upgrade failure Supports for upload/download configuration RMON I (1, 2, 3, 9 group), RMON II RFC1213 MIB II, Private MIB Supported Supported Supported |
| Access Filtering Management Feature CLI Web UI Telnet SNMP sFlow Modbus/TCP GW & Configuration Upgrade FTP client RMON MIB UPnP BOOTP DHCP | Cisco® like CLI Supported Server V1, V2c, V3 Supported Supported Supports for management and monitoring TFTP, HTTP Redundant firmware in case of upgrade failure Supports for upload/download configuration RMON I (1, 2, 3, 9 group), RMON II RFC1213 MIB II, Private MIB Supported Supported Supported Supported Server, Client, Relay, Relay option 82, Snooping |
| Access Filtering Management Feature CLI Web UI Telnet SNMP SFlow Modbus/TCP SW & Configuration Upgrade FTP client RMON MIB UPnP BOOTP DHCP RARP | Cisco® like CLI Supported Server V1, V2c, V3 Supported Supports for management and monitoring TFTP, HTTP Redundant firmware in case of upgrade failure Supports for upload/download configuration RMON I (1, 2, 3, 9 group), RMON II RFC1213 MIB II, Private MIB Supported Supported Server, Client, Relay, Relay option 82, Snooping Supported |
| Access Filtering Management Feature CLI Web UI Telnet SNMP sFlow Modbus/TCP GW & Configuration Upgrade FTP client RMON MIB UPnP BOOTP DHCP RARP IP Source Guard | Cisco® like CLI Supported Server V1, V2c, V3 Supported Supports for management and monitoring TFTP, HTTP Redundant firmware in case of upgrade failure Supports for upload/download configuration RMON I (1, 2, 3, 9 group), RMON II RFC1213 MIB II, Private MIB Supported Supported Server, Client, Relay, Relay option 82, Snooping Supported Supported Supported Supported |
| Access Filtering Management Feature CLI Web UI Telnet SNMP sFlow Modbus/TCP GW & Configuration Upgrade FTP client RMON MIB UPnP BOOTP DHCP RARP IP Source Guard Port Mirroring | Cisco® like CLI Supported Server V1, V2c, V3 Supported Supported Supports for management and monitoring TFTP, HTTP Redundant firmware in case of upgrade failure Supports for upload/download configuration RMON I (1, 2, 3, 9 group), RMON II RFC1213 MIB II, Private MIB Supported |

| | industrial Managed i E i e E emiten |
|----------------------|---|
| IEEE1588 PTP V2 | Supports 5 operating mode in each port: Ordinary-Boundary, Peer to Peer Transparent Clock, End to End Transparent Clock, Master, 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 (IFS+803GSM-8PH) Total PoE power budget limitation: maximum 180W (IFS+803GSM-8PH24) |

Dimensions



Industrial Managed FE PoE Switch

9

Ordering Information RJ45 SFP PoE **Input Power** Model Name Managed **Total Port** 10/100Base-TX 100/1000Base-X IEEE802.3at/af Power Budget Redundant 8 IFS+803GSM-8PH24 V 11 8 3 180W 24/48VDC IFS+803GSM-8PHE24 V 11 8 3 8 180W 24/48VDC 8 3 8 IFS+803GSM-8PH V 11 240W 48VDC 8 3 V 11 8 240W 48VDC IFS+803GSM-8PHE

| | Certification | | | | O a sauti a s | |
|-------------------|-----------------------------|-----------------------------------|-----------|----------------------------|---------------|--------------------------|
| Model Name | Traffic Control NEMA TS2 | UL60950-1, EN60950-1 EN62368-1 | EN50121-4 | EN61000-6-2 EN61000-6-4 | CE, FCC | Operating Temperature |
| IFS+803GSM-8PH24 | V | V | V | V | V | -10~60°C |
| IFS+803GSM-8PHE24 | V | V | V | V | V | -40~75°C |
| IFS+803GSM-8PH | V | V | V | V | V | -10~60°C |
| IFS+803GSM-8PHE | 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