

Product Datasheet

6-port Full Gigabit Managed Industrial Ethernet Switch

(**GWS-IPS3006FM**)



Overview

The GWS-IPS3006FM is a full Gigabit L2+ managed industrial Ethernet fiber switch. It has 4*10/100/1000Base-T RJ45 ports and 2*100/1000Base-X SFP fiber ports. Each port can support wire-speed forwarding.

The GWS-IPS3006FM has the L2+ full network management function, IPV4 management, static route forwarding, security protection mechanisms, complete ACL/QoS policies, and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) to improve link backup and network reliability. Any port can be looped, supporting chain, star, Double star, ring, tangent ring, intersecting ring, coupling ring, self-healing within 20ms of the ring network. When a one-way network fails, communication can be quickly resumed to ensure uninterrupted communication of important applications. This series of models has high reliability, high security, and high manageability. It ensures reliable transmission of critical data, supports remote management, and can be clustered with the NMS



network management platform of the optical network to achieve blind management. GWS-IPS3006FM industrial grade products fully comply with industrial product design and materials. The shell is made of aluminum alloy to enhance heat dissipation performance, and has excellent industrial field environment adaptability (including mechanical stability, climatic environment adaptability, electromagnetic environment adaptability, etc.), protection class up to IP30, support dual redundant power supply, low power fanless cooling technology, MTBF average trouble-free working time up to 35 years, 5-year warranty.

Feature

■ Gigabit access, SFP fiber port uplink

- ♦ Support Gigabit Ethernet port and Gigabit SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- ♦ Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

■ Network management and fast ring function

- ♦ IEEE802.1Q VLAN, flexible VLAN division, Access, Trunk and Hybrid.
- ♦ QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including EQU, SP, WRR & SP+WRR.
- ♦ ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.
- ♦ IGMP V1/V2 and IGMP Snooping.
- ♦ STP/RSTP/MSTP.
- ♦ Static and dynamic aggregation.

Security

♦ 802.1X authentication.



- ♦ Port isolation, Storm control.
- ♦ IP-MAC-VLAN-Port binding.

■ Stable and reliable

- ♦ Low power consumption, fan-less design, aluminum shell.
- ♦ CCC, CE, FCC, RoHS.
- ♦ The user-friendly panel, it can show the device status through the LED indicator of PWR,SYS, Link, L/A.

One-stop remote control and management

- ♦ Web management, CLI command line (Console, Telnet), SNMP (V1/V2c/V3).
- ♦ HTTPS, SSLV3, and SSHV1/V2.
- ♦ RMON, system log, LLDP, and port traffic statistics.
- ♦ CPU monitoring, memory monitoring, Ping test, and cable diagnose.

Technical Specification

Model	GWS-IPS3006FM			
Interface Characteristics				
Fixed Port	4*10/100/1000Base-T RJ45 ports (Data) 2*100/1000Base-X uplink SFP slot ports (Data) 1 * RS232 console port(115200,N,8,1) 2 set of V+, V- redundant DC power interface (5 Pin Phoenix terminal)			
Ethernet Port	Port 1-4 support 10/100/1000Base-T,auto-sensing,Full/half duplex MDI/MDI-X self-adaption			
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)			



SFP Slot Port	Gigabit SFP optical fiber interface, default matching optical modules (optional			
SIT Slot Fort	order single-mode / multi-mode, single fiber / dual fiber optical module. LC)			
Optical Cable/	Multi-mode: 850nm/0 ~ 550M,			
Distance	single-mode: 1310nm/0 ~ 40KM, 1550nm/0 ~ 120KM.			
Chip Parameter				
Network Management	10.			
Type	L2+			
Naturally Duate and	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX			
Network Protocol	IEEE802.3ab 1000Base-TX, IEEE802.3z 1000Base-X, IEEE802.3x			
Forwarding Mode	Store and Forward(Full Wire Speed)			
Switching Capacity	64Gbps			
Forwarding	8.93Mpps			
Rate@64byte				
MAC	8K			
Buffer Memory	4.1Mb			
Jumbo Frame	10KB			
CPU(Hz)	500M			
DRAM	1Gb			
Flash	128Mb			
	Power: PWR (Green), System: SYS (Green), Network: Link G1-G4(Yellow),			
LED Indicator	Fiber port: L/A G5-G6 (Green)			
D 4 C 14 1	Yes. Press and hold the reset switch for 10 seconds and release it to restore			
Reset Switch	factory settings			
Power Supply				
Working Voltage	12-48VDC, 5 Pin industrial Phoenix terminal, support anti-reverse protection.			
Power Consumption	Standby<6W, Full load<12W			
Power Supply	Self-purchased, optional 24V/24W industrial power supply			



Operation TEMP / Humidity	-40~+75°C, 5%~90% RH Non condensing			
Storage TEMP / Humidity	-40~+85°C, 5%~95% RH Non condensing			
Dimension (L*W*H)	155*135*44mm			
Net /Gross Weight	<0.6kg / <0.75kg			
Installation	Desktop, DIN rail			
Certification & Warran	nty			
	Lightning protection: 6KV 8/20us; Protection level: IP30			
	IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge			
	IEC61000-4-3(RS):10V/m(80~1000MHz)			
	IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV			
	IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV			
Title Day of the	IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)			
Lightning Protection/	IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s			
Protection Level	IEC61000-4-9(pulsed magnet field):1000A/m			
	IEC61000-4-10(damped oscillation):30A/m 1MHz			
	IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV			
	IEC61000-4-16(common-mode transmission):30V; 300V,1s			
	FCC Part 15/CISPR22(EN55022):Class B			
	IEC61000-6-2(Common Industrial Standard)			
Mechanical Properties	IEC60068-2-6 (anti vibration), IEC60068-2-27 (anti shock)			
Mechanical Froperties	IEC60068-2-32 (free fall)			
Certification	CCC,CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B;			
Certification	RoHS			
Warranty	5 years, lifelong maintenance.			
Network Management	Features			
Interface	IEEE802.3X (Full-duplex)			
interrace	Port temperature protection setting			



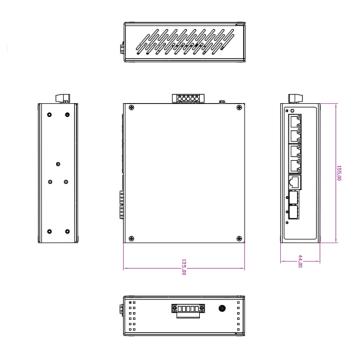
	Port green Ethernet Energy-saving setting			
	Broadcast storm control based on port speed			
	The speed limit of the message flow in the access port.			
	The minimum particle size is 64Kbps.			
Lavan 2 Faatuma	L2+ network management ,IPV4 management			
Layer 3 Features	Static route, Default route @ 64 pcs, APR @ 1024 pcs			
	4K VLAN based on port, IEEE802.1q			
VLAN	VLAN based on the protocol, VLAN based on MAC			
	QinQ configuration, Port configuration of Access, Trunk, Hybrid			
Port Aggregation	LACP, Static aggregation, Max 3 aggregation groups and 8 ports per group.			
Spanning Tree	STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)			
Industrial Ring	250 Pi			
Network Protocol	250 Ring at most, Max 250 devices per ring.			
26.10	MLD Snooping v1/v2,Multicast VLAN			
Multicast	IGMP Snooping v1/v2/v3, Max 1024 multicast groups, Fast log out			
Port Mirroring	Bidirectional data mirroring based on port			
	Flow-based Rate Limiting			
	Flow-based Packet Filtering			
Oog	8*Output queues of each port			
QoS	802.1p/DSCP priority mapping			
	Diff-Serv QoS,Priority Mark/Remark			
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)			
	Port-based Issuing ACL,ACL based on port and VLAN			
ACL	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based			
ACL	on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol			
	Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.			
	IP-MAC-VLAN-Port binding			
Security	ARP inspection, Anti-DoS attack			
	AAA & RADIUS,MAC learning limit			



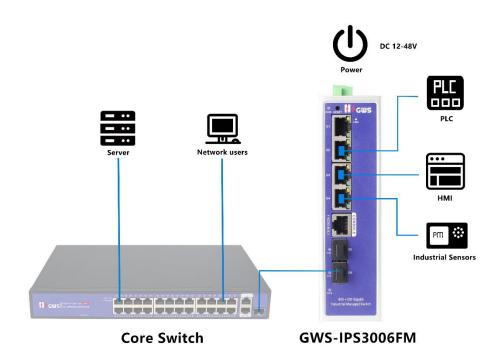
	Mac black holes,IP source protection		
	IEEE802.1X & MAC address authentication		
	Broadcast storm control, Backup for host datum		
	SSH 2.0,SSL,Port isolation,ARP message speed limit		
	User hierarchical management and password protection		
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay		
	One-key recovery		
	Cable Diagnose,LLDP		
	Web Management (HTTPS)		
M	NTP,System work log,Ping Test		
Management	CPU instant utilization status view		
	Console/AUX Modem/Telnet/SSH2.0 CLI		
	Download & Management on FTP, TFTP, Xmodem, SFTP,SNMP V1/V2C/V3		
	NMS - smart network management system platform(LLDP+SNMP)		
	Category 5 Ethernet network cable		
	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or		
System	higher, Microsoft Internet Explorer10 or later;		
	TCP/IP, network adapter, and network operating system (such as Microsoft		
	Windows, Linux, or Mac OS X) installed on each computer in a network		



Dimension



Application





Ordering Information

Model	Description	Recommended Power Supply
GWS-IPS3006FM	L2+ managed industrial Ethernet fiber switch with 4*10/100/1000M RJ45 ports and 2*100/1000M SFP ports. Support DC dual power supply input and DIN rail mounting.	12W/24W
Note: The industrial switch not including SFP optical module and power supply. and needs to be		

Packing List

purchased separately.

	CONTENT	QTY	UNIT
	6-port full gigabit managed industrial Ethernet switch	1	SET
PACKING LIST	RJ45-DB9 Line	1	PC
	User Guide	1	PC
	Warranty Card	1	PC

Optical Module Information

Product	Model	Description	Unit
1.25G Optical Module	2630-G	Industrial SFP optical module, 1.25G, multi-mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull.	PC
Wodule	2632-G	Industrial SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM	PC



		function, support hot plug and pull.	
		Industrial SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
		Industrial SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
Industrial SFP optical module, 1.25G, single-mode single fiber 2612-T-G-SC TX1310nm/RX1550nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.		PC	
	2613-R-G-SC	Industrial SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.	PC
Power Module	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC

Power Supply

Product	Model	Description	Unit
24W DIN Rail Industrial Power Supply	DP24-24	Din Rail 24W single set of output power supply Input Voltage:AC 100V~240V 50-60H,0.35A Output Voltage:DC 24V 1A Operation Temperature:-40°C—+70°C	PC



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