

IS-DF406P Series

6-port Din-Rail Fast Ethernet Web-smart Managed Layer 2 Industrial PoE Switch



The IS-DF406P Series are Fast Ethernet web-smart managed 6-port Ethernet switch up to 4 10/100Mb IEEE 802.3af/at PoE ports provide easy to use plug-n-play applications; The cost-effective IS-DF406P Series web-smart managed switches can provide power and data directly through a single Ethernet cable, which is ideal for factory production line, wide-area distributed wireless network backbone or IP Surveillance system. The IS-DF406P Series switches are especially good for Building automation, CCTV, ITS and security/safety related applications.



Key features

- ▶ 6/4 10/100Mb Copper ports plus 0/2 100Mb Based SFP ports
- ▶ Support up to 4 PoE ports, IEEE 802.3af/at PoE, 15.4/30 Watts output, Full Load
- ▶ Layer 2 Line-Speed Switching Fabric, non-blocking
- ▶ Network redundancy LACP, Spanning Tree Protocol, STP, RSTP
- ▶ Port-based VLAN, IEEE 802.1Q Tag-based VLAN
- ▶ Redundant Power Input (12~58 VDC) & Reverse power protection
- ▶ SNMP v1/v2c, Trap
- ▶ Din-Rail Mount, Wall Mount Installation
- ▶ -10~60°C operating temperature
- ▶ Loop Protection
- ▶ IP 30 Protection
- ▶ 2KV surge immunity on RJ45 Copper port
- ▶ 1.5KV Hi-pot
- ▶ Rugged Fan-less Design
- ▶ Fault Alarm Notification (Power, Ports)

Specification

Ethernet

Operating Mode	Store and Forward, L2 wire-speed/non-blocking switching engine
MAC addresses	16K
Packet Buffer	4 Mbits
Switching Fabric / Back Plane	1.2 Gbps

RJ45 Copper ports

Speed	10/100 Mbps
MDI/MDIX Auto-crossover	Support straight or cross wired cables
Auto-negotiation/Duplex	10/100 Mbps speed auto-negotiation; Full & Half Duplex
Ethernet Port Protection	1.5KV VRMS 1minute (Hi-pot), 2KV surge immunity on RJ45 Copper ports
PoE	IEEE 802.3af/at (15.4/30 Watt), PoE/PoE+

Fiber Ports

Port Types supported	100 Base SFP Slot
Fiber port connector	LC/RJ45 connector for fiber ports
Optimal fiber cable	Typical 50 or 62.5/125 μ m for multimode (mm) Typical 8 or 9/125 μ m for single mode (sm)

Protocols & Standards

IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1D/w, IEEE 802.1Q/p, IEEE 802.1ab, IEEE 802.1X, IEEE 802.3ad LLDP, IPv4/IPv6, SNMP v1/v2c, TFTP, ARP, RARP, Telnet, Syslog, Flow Control, Back Pressure, ICMP, UPD, TCP

Network Redundancy

Spanning Tree Protocol	IEEE 802.1D/1w, STP/RSTP
Port Trunk / LACP	Static Trunk or LACP (Link Aggregation Control Protocol)

Bridge, VLANs, Protocols

Flow Control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
Max VLANs	256
VLAN Types	Port-Based VLAN, IEEE 802.1Q tag-based VLAN
Multicast protocols	IGMP v1, v2, up to 255 multicast groups
	IGMP snooping, querying
LLDP	IEEE 802.1ab LLDP

Traffic management & QoS

Priority	IEEE 802.1p QoS
Number of queues per port	8
Scheduling schemes	SPQ, WRR

Security

Port Security	IP and MAC-based Access Control/Filter, Auth User / Privilege Level Control
Storm Control	Multicast / Broadcast / Flooding Storm Control / Port Access Control / Limiters

Management

User Management Interfaces	Web-based Management
	SNMP V1, V2c, Trap, Telnet (5 sessions)
Management Security	HTTPs, SSH, Access Management, Loop Protection
Upgrade & Restore	TFTP for Configuration Import / Export
	TFTP for Firmware Upgrade
Diagnostic	Syslog, Level Info / Warning / Error
	Port Mirror, Per VLAN mirroring, CPU Load Monitor, Traffic Counter
	ICMP Ping
DHCP	Client Mode, Server Mode, Relay Mode, Snooping
SNTP	YES
System Status	Device info/status; Ethernet port status
Green Ethernet	Port Power Savings

Power

Power Input	Redundant Power Input, Removable Terminal Block
Input Voltage Range	12-58 VDC
Reverse power protection	YES
Transient protection	> 15, 000 Watts peak
Power Consumption	12.5Watt

Indicators

Power status indication	Power Input status
Ethernet port indication	Link & speed

Environmental and Compliances

Operating Temperature	-10~60°C (Cold startup at -10°C)
Storage Temperature	-40~85°C
Humidity	5~95% (Non-Condensing)
Vibration, shock, free fall	IEC-60068-2-6, -27, -32
Certification Compliance	CE, FCC
Electrical safety	CE
EMC	FCC Part 15, CISPR 22 (EN55022) Class A IEC-61000-4-2, -3, -4, -5, -6 (Level 3)
RoHS & WEEE	RoHS (Pb free) and WEEE Compliant
MTBF	>220,000 hrs

Mechanical

Protection	IP30
Dimension	TBD
Weight	TBD
Installation	Din-Rail Mount, Wall mount
Relay Output	1A, 24V, Normal Open

Dimension Diagram

TBD

Ordering Information

Available Models	Description	10/100Mb TX	100Mb FX
IS-DF406P-4	Industrial 6-port Fast Ethernet Layer 2 Web-smart Managed PoE Switch, 4 PoE/PoE+, -10~60°C	6(4 PoE)	0
IS-DF406P-2F-4	Industrial 6-port Fast Ethernet Layer 2 Web-smart Managed PoE Switch, 4 PoE/PoE+, -10~60°C	4(4 PoE)	2

Accessories

- 100 Mb SFP Modules
- IS-RK2U rack mount kit
- IS-RK4U rack mount kit

Package Checklist

- IS-DF406P Switch
- Quick Installation Guide (Printed)
- Documentation & Software CD
- RJ45 / SFP Cap / Wall Mount kit / DIN-rail kit