

# IET4112SPp/IET4212SPp Series

Hardened / Industrial Smart 4-port 10/100Base-TX (PoE+) or 10/100/1000Base-TX (PoE+) + 1-port 100/1000Base-FX SFP Ethernet Switch



## Features

- ▶ Support IEEE 802.3at PoE+ (30W per port)
- ▶ Multicast / Broadcast / Flooding Storm Control
- ▶ Support 802.1p QoS, 4 queues per port
- ▶ 9K Jumbo Frames
- ▶ 1Mbit Packet Buffer Memory
- ▶ Fanless design
- ▶ Dual power input (12 ~ 58 VDC)
- ▶ IP30
- ▶ DIN-Rail and Wall mounting option
- ▶ Hardened Series Wide Operating Temperature Range -40°C to 75°C (-40°F to 167°F)



## Warranty

- ▶ 5-Year Warranty

## Specifications

### Ethernet

Standards	IEEE802.3 10Base-T IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x Flow Control IEEE802.3af Power Over Ethernet IEEE802.3at Power Over Ethernet
Packet Buffer Memory	1 Mbits
Processing Type	Store and forward, L2 wire-speed/non-blocking switching engine
Switch Fabric	IET4112SPp Series: 2.8 Gbps, IET4212SPp Series: 10 Gbps
Forward Filter Rate	14,880pps (10Mbps) 148,800pps (100Mbps) 1,488,000pps (1000Mbps)
Ethernet Ports	IET4112SPpH-S-DR/ IET4112Pp-S-DR: 4 x RJ45 10/100 Mbps speed; Auto-negotiation; MDI/MDI-X Auto-crossover ports, IET4212SPpH-S-DR/ IET4212SPp-S-DR: 4 x RJ45 10/100/1000 Mbps speed; Auto-negotiation; MDI/MDI-X Auto-crossover ports
Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
Jumbo frames	9K Bytes
Address Table Size	2 K

### Optical

SFP (pluggable) Ports	1 x 100/1000BaseFX SFP slot
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### Electrical and Mechanical

Input Power	12-58 VDC, Redundant Input Terminals
Power Consumption	123 W
Reverse power protection	Yes
PoE	
Standard	IEEE 802.3at (PSE)
Port	RJ45 Port 1 – Port 4
Max. Power per Port	30W per port (Alternative A mode)
LED Indicators	
Power	Power Status
10/100TX (per port), 10/100/1000TX (per port)	Link/Activity & Speed
100/1000FX (per port)	Link/Activity & Port Speed
PoE Power Indication	PoE power status indication

## Specifications

Dimensions (W x D x H)	29 x 106 x 139mm (without DIN clip)
Ingress protection	IP30
Weight	0.375 Kg
Mounting options	DIN-Rail / Wall-mount

## Smart Features

### Traffic Management

QoS	IEEE 802.1p, 4 queues per port
Traffic Shaper	Port-based Traffic shaping
Storm Control	Multicast / Broadcast / Flooding

## Environmental

Operating Temperature	
IET4112SPpH-S-DR, IET4212SPpH-S-DR	-40°C to 75°C (-40°F to 167°F) (cold startup at -40°C)
IET4112Pp-S-DR, IET4212SPp-S-DR	-20°C to 60°C (-4°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	5% to 95% RH non-condensing
MTBF	> 200,000 hrs

## Compliance & Regulatory Approvals

ISO9001	Yes
EMC	FCC Part 15, CISPR 22 (EN55022) Class A, IEC61000-4-2, -3, -4, -5, -6 (level 3)
Vibration, shock & freefall	IEC60068-2-6, -27, -32 (pending)
Compliance	CE/FCC/UL-508; EN50121-4 (pending)
Electrical Safety	UL-508/CSA C22, EN61010-1, CE (pending)
RoHS and WEEE	RoHS (Pb Free) and WEEE compliant

## Ordering Information

Available Model	Description
<b>IET4112SPp-S-DR</b>	Industrial Smart 4-port 10/100Base-TX (PoE+) + 1-port 100/1000Base-FX SFP Ethernet Switch
<b>IET4112SPpH-S-DR</b>	Hardened Smart 4-port 10/100Base-TX (PoE+) + 1-port 100/1000Base-FX SFP Ethernet Switch
<b>IET4212SPp-S-DR</b>	Industrial Smart 4-port 10/100/1000Base-TX (PoE+) + 1-port 100/1000Base-FX SFP Ethernet Switch
<b>IET4212SPpH-S-DR</b>	Hardened Smart 4-port 10/100/1000Base-TX (PoE+) + 1-port 100/1000Base-FX SFP Ethernet Switch

### Optional Accessories (to be purchased separately)

<b>SFP</b>	(S) = SFP Option. Please select your SFP on our SFP Modules page at the back of the catalogue or our website <a href="http://www.ot-systems.com">www.ot-systems.com</a> for details.
<b>Power Supply</b>	Please refer to the power supply information at the back of the catalogue, our website <a href="http://www.ot-systems.com">www.ot-systems.com</a> , or consult OTS sales at <a href="mailto:sales@ot-systems.com">sales@ot-systems.com</a> for your power system design properly.

### Package Checklist

■ Unmanaged Switch	x 1
■ Wall Mount Plates	x 2
■ DIN-Rail Clip	x 1
■ M4 Screws (for the Wall Mount Plates & DIN Clip)	x 4
■ DC Power Terminal Block	x 1
■ Quick Installation Guide	x 1

