

RELIABLE. HARDENED. GIGABIT SPEED.

MEET SOLIS ENERGY'S INDUSTRIAL PoE SWITCH.



High performance for demanding environments. Solis Energy's HPX Series industrial PoE switches are designed to provide reliable connectivity for PoE devices in challenging operating conditions. The HPX-4514 features a rugged full-metal enclosure, fanless design, and an extended operating temperature range of -40 °C to 85 °C, providing dependable performance where environmental conditions can be demanding. With gigabit network speeds and low power consumption, the HPX Series is well-suited for industrial and infrastructure applications requiring reliable PoE connectivity.

INDUSTRIAL PoE SWITCH



FEATURES

- Wide Temperature Range (-40 to 85°C)
- Fanless Industrial Design
- 4 802.3af/at/bt Gigabit PoE Ports
- SFP Port
- DIN Rail Mounting
- Wide Power input Range 11 - 57VDC
- Over Current And Reverse Current Protection
- Low Power Consumption



APPLICATIONS

- Surveillance Cameras
- Communications Equipment
- Traffic Systems
- Industrial Sensors and IoT Devices
- Wi-Fi Access Points
- Radar & Lidar
- Edge Compute



POWER WHEN YOU NEED IT.

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Rev 26.8

HPX4514



TECHNOLOGY	Ethernet Standards	IEEE 802.3af PoE
		IEEE 802.3at PoE+
		IEEE 802.3bt PoE++
		IEEE 802.3i 10BaseT
		IEEE 802.3u 100BaseT (X)
		IEEE 802.3ab 1000BaseT (X)
		IEEE 802.3z 1000BaseX
	EMI Standards	EMI Standards CISPR (EN55022) Class A
	EMS Standards	EN61000-4-2 (ESD), Level 3
		EN61000-4-5 (Surge), Level 2 (Line-to-Line)
		EN61000-4-5 (Surge), Level 3 (Line-to-Ground)
PoE SPECIFICATIONS	PoE Modes	IEEE 802.3af Power over Ethernet (PoE)
		IEEE 802.3at Power over Ethernet (PoE+)
		IEEE 802.3bt Power over Ethernet (PoE++)
	Number of PoE++ Ports	4
	Maximum Power/PoE Port	90W (IEEE 802.3bt, Class 8)
POWER SPECIFICATIONS	PoE Pinout	4,5 (+) / 7,8 (-) 3,6 (+) / 1,2 (-)
	Connection	1 removable 6-contact terminal block
	Input Voltage	12-48VDC (11 - 57 VDC), 12A Max
	No-Load Consumption	5W @ 48VDC, 6W @ 12VDC
	Full-Load Consumption	8W @ 48VDC (Excluding PD's consumption)
	Power Budget	144W @ 12VDC, 288W @ 24VDC, 360W @ 48VDC
	Over-Current Protection	Present, 1.65A per port
	Surge Protection	Common mode: 4kV, Differential Mode: 1.5kV
	Number of Ethernet Ports	4
PORT SPECIFICATIONS	Ethernet Connector Type	RJ45
	Ethernet Standard	10/100/1000BASE-TX Auto Negotiation Speed
		Full/Half Duplex Mode
		Auto MDI/MDI-X Connection
	Number of Fiber Ports	1
	Fiber Connector Type	SFP Slot
	Fiber Standard	1000BASE-X
SWITCH PROPERTIES	Packet Forwarding Rate	7.44 MPPS (5 x 1.488 MPPS)
	Data Processing	Store and Forward
	MAC Table Size	10 K
	Jumbo Frame Size	10 Kbytes
	Packet Buffer Size	1 Mbit
PHYSICAL SPECIFICATIONS	Housing	Extruded Aluminum Alloy
	Ingress Protection	IP40
	Dimensions (W x H x D)	76 x 146 x 95 mm (including DIN mount)
		3.0 x 5.75 x 3.74 in (including DIN mount)
	Weight	1230g (2.7 lb)
	Installation	DIN-rail mount
	Operating Temperature	-40 to 85 °C (-40 to 167 °F)
	Storage Temperature	-40 to 85 °C (-40 to 167 °F)
	Ambient Relative	5 to 95% (non-condensing)

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