



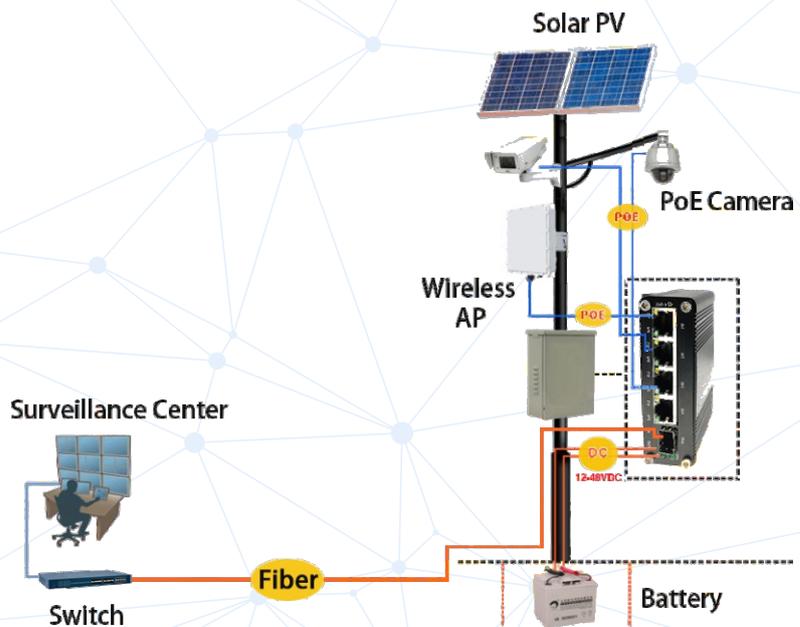
- 4 x 10/100/1000 BASE-T RJ45 Ports with auto-MDI/MDI-X and IEEE 802.3at PoE+ compatibility
- 1 x 100/1000 BASE-X SFP Slot with auto-detection
- 12-48VDC Power Input with Voltage Booster for PoE Ports
- Supports 802.3x Flow Control
- DIN Rail and Wall-Mount Installation
- Up to 120W PoE Budget (48VDC), 90W PoE Budget (24VDC), and 60W PoE Budget (12VDC)
- IP40 Aluminium Enclosure
- -40°C to +80°C Operating Temperature Range

## Overview:

The PDT-NSU-7104-MP-SF-I is an Ultra-Small Form Factor Industrial PoE Switch, supporting 4 x 10/100/1000 BASE-T PoE+ RJ45 Ports, and 1 x 100/1000 BASE-X auto-detecting SFP Port. The unit is designed for harsh industrial conditions and environments and has a wide operating input voltage range of 12-48VDC, allowing it to be used in solar or other battery powered applications. An internal voltage booster ensures that 48VDC is supplied to the 4 x 802.3at compliant PoE Ports. The unit is housed in a rugged aluminium case, and the device has a wide operating temperature range, to allow it to be used in a wide variety of applications.

## Applications

- Solar Powered PoE Devices
- CCTV Installations
- Lighting Systems
- Access Control
- Remote Monitoring Stations
- Distributed IoT Gateways



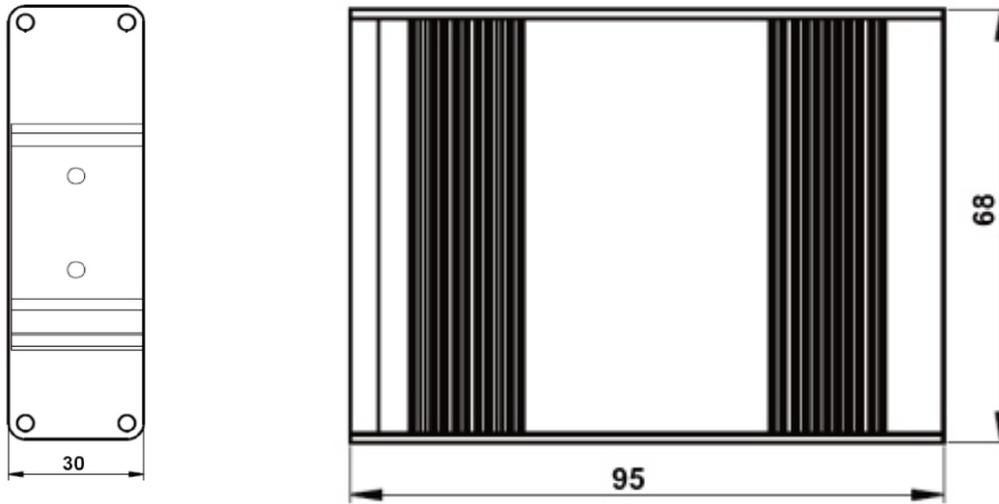
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## Specifications

ETHERNET	Standards	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Efficient Energy Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus	ELECTRICAL	Operating Voltage	+12-48VDC (Terminal Block Connector)
	Forwarding and Filtering Rate	14,880pps (10Mbps) 148,800pps (100Mbps) 1,488,000pps (1000Mbps)		Power Consumption	6W without PoE
	Packet Buffer	1Mbits		Short-Circuit Protection	Auto-Reset
	Packet Length	10KB		Reverse Polarity	Protected
	MAC Address Table	8K	MECHANICAL	Dimensions	95mm x 70mm x 29mm
	Switch Fabric	10Gbps/ non-blocking		Weight	0.25kg
	Exchange Property	Backplane Bandwidth: 20Gbps Packet Forwarding Rate: 14.88Mbps		Casing	Aluminium
				Mounting	DIN Rail & Wall Mount
			INDICATORS	PWR	Power
				L/A	Link/ Activity
				PoE	PoE Status
INTERFACE	Wired	4 x RJ45	CERTIFICATION	Electrical Safety	EN 62368-1:2020+A11:2020
	Optical	1 x SFP 1000 BASE-X or 100 BASE-FX		Emissions	EN 55032:2015+A1:2020
PoE	Standard	IEEE 802.3af / 802.3at		Radiated Immunity	EN 55035:2017+A11:2020
	Port	RJ45		Harmonic Emissions	EN 61000-3-2:2014
	Power Pin Assignment	4/5 (+) 7/8 (-)		Fluctuations and Flicker	EN 61000-3-3:2013
	PoE Budget	48VDC Supply: 120W 24VDC Supply: 90W 12VDC Supply: 60W		Electro-Static Discharge	EN 61000-4-2:2009
				Electromagnetic Field Immunity	EN 61000-4-3:2010
				Electrical Fast Transients	EN 61000-4-4:2012
				Surge	EN 61000-4-5:2014+A1:2017
				Conducted Immunity	EN 61000-4-6:2014
ENVIRONMENTAL	Operating Temp	-40°C to +80°C		Power Frequency Magnetic Field	EN 61000-4-8:2010
	Storage Temp	-40°C to +85°C			
	Relative Humidity	5% - 95% - non-condensing		RoHS	IEC 63000:2018
	MTBF	>200,000 hours			

## Dimensions



All Dimensions in mm

## Ordering Information

Model	Description	Part No
PDT-NSU-7104-MP-SF-I	4 Port 10/100/1000 BASE-T PoE + 1 Port 10/100/1000 BASE-X SFP Unmanaged SFF Industrial Switch, 12-48VDC	0010-00040

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