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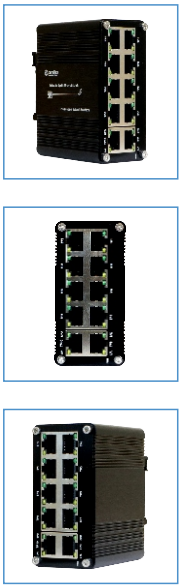
Micro-NET



- 10-Port 10/100/1000 BASE-T RJ45 Ports auto-MDI/MDI-X
- Supports auto-negotiation and 10/100Mbps half/full duplex and 1000Mbps full duplex
- 12-48VDC Power Input
- Supports 802.3x Flow Control
- Compliant with IEEE 802.3az Energy Efficient Ethernet
- DIN Rail Installation
- IP40 Aluminium Enclosure
- -40°C to +80°C Operating Temperature Range

Overview:

The PDT-NSU-7010-I is an Ultra-Small Form Factor Industrial Unmanaged Network Switch, supporting 10 x 10/100/1000 BASE-T RJ45 Ports. 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. The unit is housed in a small form factor 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 Installations
- CCTV Installations
- Access Points
- Access Control
- Remote Monitoring Stations
- Distributed IoTx 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
	Forwarding and Filtering Rate	14,880pps (10Mbps) 148,800pps (100Mbps) 1,488,000pps (1000Mbps)
	Packet Buffer	2Mbits
	Packet Length	10KB
	MAC Address Table	4K
	Switch Fabric	20Gbps/ non-blocking
	Exchange Property	Backplane Bandwidth: 20Gbps Packet Forwarding Rate: 14.88Mbps
INTERFACE	Wired	10 x 10/100/1000T RJ45
ENVIRONMENTAL	Operating Temp	-40°C to +80°C
	Storage Temp	-40°C to +85°C
	Relative Humidity	5% - 95% - non-condensing
	MTBF	>200,000 hours
ELECTRICAL	Operating Voltage	12-48VDC (Terminal Block Connector)
	Power Consumption	10W
	Short-Circuit Protection	Auto-Reset
	Reverse Polarity	Protected

MECHANICAL	Dimensions	95mm x 88mm x 46mm
	Weight	0.3kg
	Casing	Aluminium
	Mounting	DIN Rail Mount
INDICATORS	PWR	Power
	L/A	Link/ Activity
	SPD	Data Rate
CERTIFICATION	Electrical Safety	EN 62368-1:2020+A11:2020
	Emissions	EN 55032:2015+A1:2020
	Radiated Immunity	EN 55035:2017+A11:2020
	Harmonic Emissions	EN 61000-3-2:2014
	Fluctuations and Flicker	EN 61000-3-3:2013
	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
	Power Frequency Magnetic Field	EN 61000-4-8:2010
	RoHS	IEC 63000:2018

Dimensions

Ordering Information

Model	Description	Part No
PDT-NSU-7010-I	10 Port 10/100/1000 BASE-T - Unmanaged SFF Industrial Switch, 12-48VDC	0010-00068

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