8-Port Industrial Ethernet Switches | IDS-106FE

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IDS-106FE Industrial Ethernet Switches

8-port Compact DIN Rail Switches

- 6 x RJ45 ports with 10/100 Mbps on all ports
- 2 x SFP slots for 100Base-X SFP modules supplied by Perle, Cisco, or other MSA compliant manufacturers
- Redundant dual power input 12/24/48 VDC
- Reverse polarity protection
- Fan-less design with no moving parts
- -40 to 75C industrial operating temperature support
- QoS (Quality of Service) prioritized messages

With a combination of six Fast Ethernet copper ports, and two SFP fiber ports for long distance connectivity, Perle IDS-106FE Industrial Ethernet Switches are designed for easy deployment in industrial environments with harsh operating conditions and limited space. Designed to stand up to extreme temperatures, surges, vibrations, and shocks found in industrial automation, infrastructure, transportation, security, oil and gas, and mining the IDS-106FE Switches are economical easy-to-use devices, that provide essential industrial Ethernet networking functionality.

These unmanaged switches support 9 to 55VDC redundant power input and provide a relay alarm for power failure. The full/half-duplex auto-negotiation and auto MDI/MDIX operation simplifies installation and setup for convenient connection of a variety of network devices. And, QoS support allows for traffic prioritization and effective management of resources.

For automation and industrial control systems using EtherNet/IP, these rugged, DIN rail mountable switches with metal housing provides security and easy installation (mounting kit is included).

Hardware & Technical Specifications: IDS-106FE Industrial Ethernet Switches

Interfaces	
RJ45	6 x RJ45 ports for 10/100Base-TX up to 100 meters (328 ft)
	Auto-negotiation
	Auto-MDI/MDIX-crossover for use with either crossover over straight-through cable types
	Ethernet isolation 1500 V

Small Form Factor Pluggable (SFP) slot(s)	2 empty SFP slot models for 100/1000Base-X SFP modules supplied by Perle, Cisco or other manufacturers of MSA compliant SFPs
Alarm Contact	One relay output with current 0.5A@30V

Power

Dual Power Input	12/24/48VDC (9-55VDC)
Power Consumption	3.40W max
Maximum Current Consumption @ 24VDC	0.06A @ 24VDC
Power Connector	7-Pin Removable Terminal Block
Overload Current Protection	2A fuse provides overload current protection
Reverse Polarity Protection	The positive and negative inputs can be reversed providing safe and simple power connectivity.

Switch Properties

Standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/FX IEEE 802.3az Energy Efficient Ethernet IEEE 802.1p Quality of Service (QoS)
Processing Type	Store-and-Forward Auto Negotiation Half-duplex back-pressure and IEEE 802.3x full-duplex flow control Auto MDI/MDIX
MAC Address Table Size	2K
Packet Buffer Memory	768 Kbps
Jumbo Frame Size	2048 bytes

Forward/Filtering Rate	14,880pps for 10Mbps 148,810pps for 100Mbps

Indicators

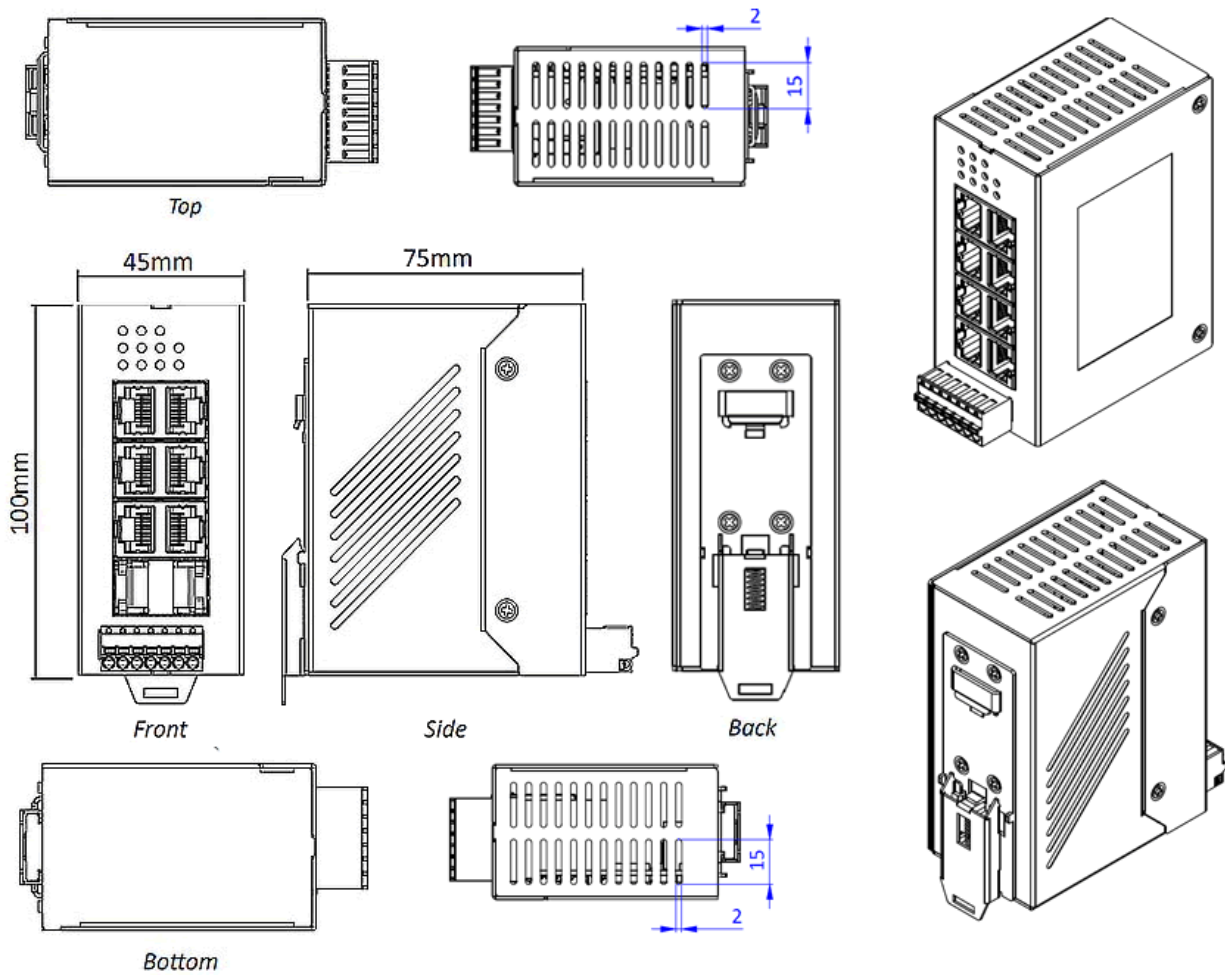|	
Power LED 1	This LED is green when power is applied
Power LED 2	This LED is green when power is applied
Fault LED	This LED is red when a fault is detected
RJ45 / SFP Ethernet LED	These LED is solid green for established link and bllinks green when activity is detected (per port)

Environmental Specifications

Operating Temperature Ranges	IDS-106FE: -10 to 60°C (14 to 140°F) IDS-106FE-XT: -40 to 75°C (-40 to 167°F)
Storage Temperature Range	-40 to 85°C (-40 to 185°F)
Operating Humidity Range	5% to 90% non-condensing
Storage Humidity Range	5% to 95% non-condensing
Operating Altitude	Up to 3,048 meters (10,000 feet)
Chassis	Metal with an IP40 ingress protection rating
Din Rail Mountable	DIN Rail attachment included. Mounts to standard 35 mm DIN rail in accordance with DIN EN 60175.
Maximum Heat Output	11.594 BTU/Hr
MTBF	8481986 hours MTBF Calculation model based on MIL-HDBK-217-FN2 @ 25°C

Product Weight and Dimensions

Weight	0.336 Kg, 0.74 lbs
Dimensions	45x75x100mm (W x D x H) (1.77"x2.95"x3.94")

Packaging

Shipping Weight	336g (0.74lbs)
Shipping Dimensions	45x75x100mm, 1.77"x2.95"x3.94" (W x D x H)
Contents Shipped	Industrial Ethernet Switch with DIN Rail attachment Terminal block Installation guide

Standards and Certifications

Safety	UL 61010
EMC Emissions	FCC Part 15 Class A VCCI Class A EN 61000-6-4 ICES-003 EN 55032
EMC Immunity	EN 61000-6-2 EN 61000-4-2 (ESD) EEN 61000-4-3 (Radiated RFI) EN 61000-4-4 (Burst) EN 61000-4-5 (Surge) EN 61000-4-6 (Induced RFI) EN 61000-4-8 (Magnetic field)
Industrial	EN 50121-4
Environmental	Reach, RoHS and WEEE Compliant
Other	ECCN: 5A991 HTSUS Number: 8517.62.0020 5 year warranty

IDS-106FE Industrial Ethernet Switches

Top

Side

Back

Front

Bottom

45mm

75mm

100mm

2

15

15

2

Product Image	Description	Power Cord	Product Number
	IDS-106FE-2SFP Industrial Switch with 8-ports: 6 x 10/100Mbps RJ45 Ethernet ports and 2 x 100Mbps SFP slots (empty). -10 to 60C operating temperature.	None	07017480
	IDS-106FE-2SFP-XT Industrial Switch with 8-ports: 6 x 10/100Mbps RJ45 Ethernet ports and 2 x 100Mbps SFP slots (empty). -40 to 75C operating temperature.	None	07017500