

5-Port Industrial Ethernet Switches | IDS-105FE

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IDS-105FE Industrial Ethernet Switch

5-port Compact DIN Rail Switch

- 5 x RJ45 ports with 10/100 Mbps on all ports
- Redundant dual power input 12/24/48 VDC
- Reverse polarity protection
- Fan-less design with no moving parts
- -10 to 60C industrial operating temperature support
- QoS (Quality of Service) prioritized messages



The Perle IDS-105FE Industrial Ethernet Switch is 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-105FE Switch is an economical easy-to-use device, that provide essential industrial Ethernet networking functionality.

This 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, this rugged, DIN rail mountable switches with metal housing provides security and easy installation (mounting kit is included).

Hardware & Technical Specifications: IDS-105FE Industrial Ethernet Switch

Interfaces

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

Power

Power Input	12/24/48VDC (9-55VDC)
Power Consumption	1.82W Max. 0.14A@12VDC / 0.07A@24VDC, 0.038A@48VDC
Maximum Current Consumption @ 24VDC	0.14A@12VDC / 0.07A@24VDC, 0.038A@48VDC
Power Connector	3-Pin Removable Terminal Block
Overload Current Protection	Reset-able 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 802.3u 100BASE-TX/FX
	IEEE802.3x full-duplex flow control
	IEEE 802.3az Energy Efficient Ethernet
	IEEE 802.1p Quality of Service (QoS)
Processing Type	Store-and-Forward
	Auto Negotiation
	Half-duplex back-pressure
	802.3x full-duplex flow control
MAC Address Table Size	1K
	448 Kbps
Packet Buffer Memory	No
Jumbo Frame Size	14,880pps for 10Mbps
Forward/Filtering Rate	148,810pps for 100Mbps

Indicators

Power LED	This LED is green when power is applied
RJ45 / SFP Ethernet LED	Link/Activity (Green), Speed (Yellow)

Environmental Specifications

Operating Temperature Ranges	-10 to 60°C (14 to 140°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	Plastic with an IP30 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	6.22 BTU/Hr (max.)
MTBF	10667627 hours MTBF Calculation model based on MIL-HDBK-217-FN2 @ 25°C

Product Weight and Dimensions

Weight	0.2Kg / 0.44lbs
Dimensions	26 x 70 x 110mm / 1.02" x 2.76" x 4.33" (W x D x H)

Packaging

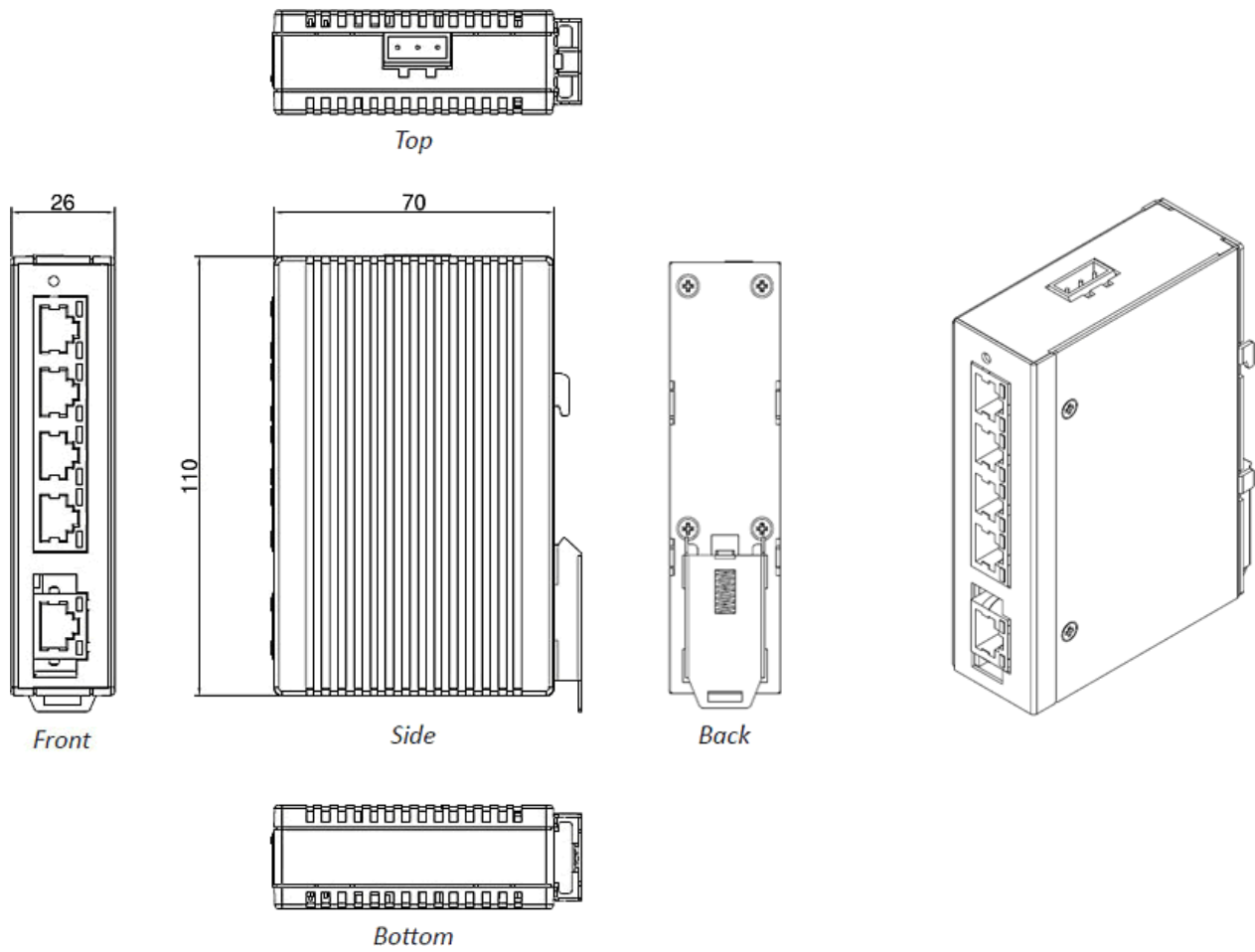
Shipping Weight	0.34Kg (0.75lb.)
Shipping Dimensions	30 x 76.3 x 110mm, 1.18" x 3.05" x 4.4" (W x D x H)
Contents Shipped	Industrial Ethernet Switch with DIN Rail attachment Terminal block Installation guide

Standards and Certifications

Safety	UL 62368
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	FCC Part 15 Class A
	VCCI Class A
EMC Emissions	EN 61000-3-2
	EN 61000-3-3
	EN 61000-6-4
	EN 61000-6-2
	EN 61000-4-2 (ESD)
	EEN 61000-4-3 (Radiated RFI)
EMC Immunity	EN 61000-4-4 (Burst)
	EN 61000-4-5 (Surge: ±4kV line-to-ground)
	EN 61000-4-6 (Induced RFI)
	EN 61000-4-8 (Magnetic field)
Industrial	IEC 60068-2-6 Fc (Vibration)
	IEC 60068-2-27 Ea (Shock)
Environmental	<u>Reach, RoHS and WEEE Compliant</u>
	ECCN: 5A991
Other	HTSUS Number: 8517.62.0020
	5 year warranty

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Part Number: 07017400

IDS-105FE Industrial Switch with 5 x 10/100Mbps RJ45 Ethernet ports. -10 to 60C operating temperature.

