

NS2051-4P/1T

5-port PoE Unmanaged Industrial Ethernet Switch

Overview

The IFS 5-port PoE Unmanaged Industrial Ethernet Switch provides four 10/100Mbps Ethernet ports with IEEE802.3-af PoE and one 10/100Mbps non-PoE Ethernet port.

This unmanaged switch provides plug-and-play installation with no programming required and is ideal for use in small IP systems. The switch uses an IP-30 standard metal case and can also be used in electrically harsh and climatically demanding environments. The switch accommodates either DIN-rail or wall mounting for efficient installation in multiple applications.

This switch is engineered with a high-performance switch architecture capable of providing a non-blocking switch fabric and wire-speed throughput of 1Gbps. With its 2K MAC address table, this switch offers wire-speed packet transfer performance without the risk of packet loss. The Flow Control function allows the switch to deliver fast and reliable IP data transfer.

This switch is ideal for applications such as IP cameras, access control, VoIP and wireless access points.



Details

- 4 RJ-45 Ports 10/100Base-TX (PoE)
- 1 RJ-45 Ports 10/100Base-TX (non-PoE)
- Auto MDI/MDI-X
- High Performance Architecture
- Unmanaged plug and play installation requiring no programming
- Store-and-Forward switching architecture with wire-speed filtering and forwarding rates
- Power over Ethernet (PoE)
- Up to 4 IEEE 802.3af devices powered
- Supports up to 15.4 watts for each PoE port
- Auto detect powered device (PD)
- Robust Hardened Design
- Provides either DIN-rail or wall-mounting
- 24 or 48VDC Operation
- Redundant power with reverse-polarity protection
- Removable terminal block for master and slave power
- Alarm relay output for power-failure alert
- Voltage/surge-suppression
- Complies with IEC60068-2-xx standards for free-fall, shock and vibration
- Wide operating temperature range of -40°C ~ +75°C

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Technical specifications

Category

Category	Industrial
Management	Unmanaged
Managed	No
PoE	Yes

Physical ports

No. of ports	5
Port type	Fast
Speed	Fast
PoE/PoE+	4 port PoE

Switch Performance

Switch fabric	1 Gbps
Throughput (Mpps)	0.744
Mac table	2 K
Switch Architecture:	Store-and-Forward
Switch Fabric:	1Gbps / non-blocking
Throughput (Packet per second):	0.744Mpps@64bytes
Address Table:	2K entries
Shared Data Buffer:	1Mbit on-chip frame buffer
Maximum Frame Size:	1522 Bytes packet
Flow Control:	Back pressure for Half-Duplex, IEEE 802.3x PAUSE Frame for Full-Duplex

Layer 2 Functions

Management interface	Unmanaged plug and play installation requires no programming
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General

Fast ring	No
DHCP snooping	No
Fault relay output	No

Physical

Physical dimensions	56 x 88 x 135 mm
Net weight	842 g
Colour	Black
Material	Metal
Mounting type	DIN-rail, Wall mount
Stackable	No

Environmental

Operating temperature	-40 to +75
Storage temperature	-40 to 85 °C
Relative humidity	0 to 95% (non-condensing)
Environment	Indoor
IP rating	IP30
MTBF:	> 100,000 Hrs @ 25°C
Operating Temperature:	-40°C~75°C
Storage Temperature:	-40°C~85°C
Relative Humidity:	0%~95% (non-condensing)

Electrical

PoE power budget	15.4 W (per port)
Redundant power	Yes
Power supply type	24 to 48 VDC
Power consumption	77 W

Standards & regulation

IEC standard	IEC60068-2-27 (shock), IEC60068-2-32 (free fall), IEC60068-2-6 (vibration)
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RJ45 Ports

10/100Base-TX	RJ-45 (4) PoE and (1) non-PoE (5 total)
Connectors:	
Port Configuration:	Auto MDI/MDI-X
Port Speed:	Auto-negotiate
Electro Static Discharge (ESD) Protection:	6KVDC

PoE

PoE Standard:	IEEE 802.3af Power over Ethernet / PSE
PoE Power Supply Type:	End-Span
PoE Power Output:	Per Port 48V DC, 350mA . Max. 15.4 Watts
Power Pin Assignment:	1/2(+), 3/6(-)

LED Indicators

Power:	Power input 1 – Green; Power input 2 – Green
Power Fault:	Proper Operation – Off; Fault –Green
RJ-45 (10/100Mbps):	100Mbps Activity – Green; 10Mbps Activity – Off
Optical Link:	Link established – Steady Green; TX/RX Activity – blinking green
PoE:	PoE in use – Amber

Electrical & Mechanical

Supply Voltage:	24 or 48VDC, Redundant power with polarity-reverse protection function
Power Consumption:	76.3Watts Max.
Electrical Fast Transient (EFT) Protection:	6KVDC
Power and Alarm Fault Connector:	6-pin removable screw terminal
Alarm Fault Relay:	Provides one relay output for power failure notification; 24VDC – 1A max.
Enclosure:	IP-30 slim-type metal enclosure
Mounting:	DIN-rail kit and wall-mount ears
Dimensions (in/mm) (W x D x H):	2.20 x 3.46 x 5.31 in. (56 x 87.8 x 135mm)
Weight (lbs./kg):	1.86 lbs./0.842kg

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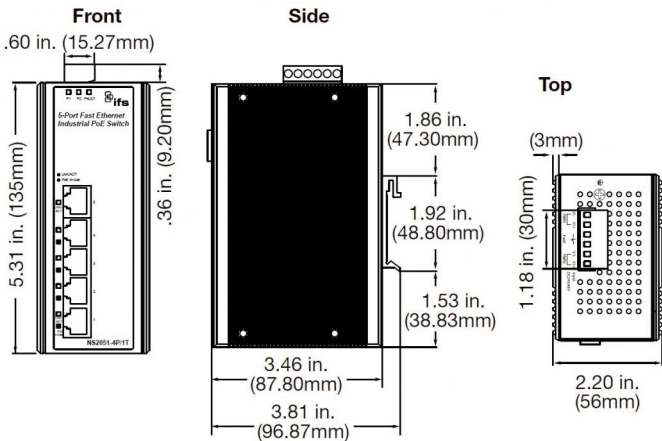
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Standards Compliance

IEEE Standards:	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3x Flow Control and Back pressure IEEE 802.3-af PoE (15.4w)
IEC Standards:	IEC60068-2-32(Free fall) IEC60068-2-27(Shock) IEC60068-2-6(Vibration)
EIA/TIA-568 Standards:	2-Pair UTP Cat. 3, 4, 5 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.)
Regulation:	FCC Part 15 Class A, CE

Accessories

PS48VDC240W-EU:	100-240V AC Input 48V DC 5A Output Power Supply Hardened Brick model with EU plug
PS48VDC240W-UK:	100-240V AC Input 48V DC 5A Output Power Supply Hardened Brick model with UK plug



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