

NS3050-8T

8-Port Unmanaged Industrial Ethernet Switch



OVERVIEW

The IFS® 8-Port Unmanaged Industrial Ethernet Switch by Interlogix provides 10/100/1000Mbps Ethernet ports.

This unmanaged switch provides plug-and-play installation with no programming required and is ideal for use in small IP systems. For efficient installations in multiple applications, this switch uses an IP-30 standard metal case and can accommodate either DIN-rail or wall mounting.

This IFS 8-Port Unmanaged Industrial Ethernet Switch is engineered with a high-performance switch architecture capable of providing a non-blocking switch fabric and wire-speed throughput of 16Gbps. With its 4K MAC address table, this switch offers wire-speed packet transfer performance with reduced risk of packet loss. The Flow Control function allows the switch to deliver fast and reliable IP data transfer.

STANDARD FEATURES

RJ-45 Ports

- 8-Port 10/100/1000Base-TX
- Auto MDI/MDI-X
- Auto-negotiation

High Performance Architecture

- Unmanaged plug and play installation requiring no programming
- Store-and-Forward switching architecture with wire-speed filtering and forwarding rates
- Packet loss reduction with back pressure (half-duplex) and IEEE 802.3x PAUSE frame-flow control (full-duplex)
- Integrated address-lookup engine supports 2K absolute MAC addresses
- CSMA/CD Protocol
- Automatic source-address learning and aging
- Up to 9K bytes packet size (Jumbo Frames) support

Robust Hardened Design

- Slim IP-30 metal enclosure for protection
- Provides either DIN-rail or wall-mounting
- 24~48VDC or 24VAC Operation
- Redundant power with reverse-polarity protection
- Removable terminal block for master and slave power
- Alarm relay output for power-failure alert
- EEE Green Network Eco-Power Technology
- Voltage/surge-suppression
 - EFT 6000VDC protection for power lines
 - ESD 6000VDC protection for Ethernet
- Complies with IEC60068-2-xx standards for free-fall, shock and vibration
- Wide operating temperature range of -40°C ~ +75°C

Warranty

- 3-year limited warranty

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8-Port Unmanaged
Industrial Ethernet Switch

Specifications

RJ45 Ports

10/100/1000 Base-TX Connectors	RJ-45 (8)
Port Configuration	Auto MDI/MDI-X
Port Speed	Auto-negotiate
Electro Static Discharge (ESD) Protection	6KVDC

Switch Performance

Switch Architecture	Store-and-Forward
Switch Fabric	16Gbps / non-blocking
Throughput (Packet per second)	11.9Mpps @ 64bytes
Address Table	4K entries
Shared Data Buffer	1.5Mbits SRAM packet buffer
Maximum Frame Size	9K Bytes packet (Jumbo Frame Support)
Flow Control	Back pressure for Half-Duplex, IEEE 802.3x PAUSE Frame for Full-Duplex

LED Indicators

Power	Power input 1 – Green; Power input 2 – Green
Power Fault	Proper Operation – Off; Fault –Green
RJ-45 (10/100/1000Mbps)	100Mbps Activity – Green; 1000Mbps Activity – Green

Electrical & Mechanical

Supply Voltage	24–48VDC or 24VAC, Redundant power with polarity-reverse protection function
Power Consumption	6.72 Watts
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)	1.26 x 3.43 x 5.31 in., (32 x 87 x 135mm)
Weight (lbs./kg)	1.0 lbs., (461g)

Environmental

MTBF	> 100,000 Hrs @ 25°C
Operating Temperature	-40°C~75°C
Storage Temperature	-40°C~85°C
Relative Humidity	0%~95% (non-condensing)

Standards Compliance

IEEE Standards	IEEE 802.3 10Base-T IEEE 802.3ab Gigabit 1000T IEEE 802.3u 100Base-TX /100Base-FX IEEE 802.3x Flow Control and Back pressure
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, 5e, 6 (100meters, max.) EIA/TIA-568 100-ohm STP (100meters, max.)
Regulation	FCC Part 15 Class A, CE

Ordering Information

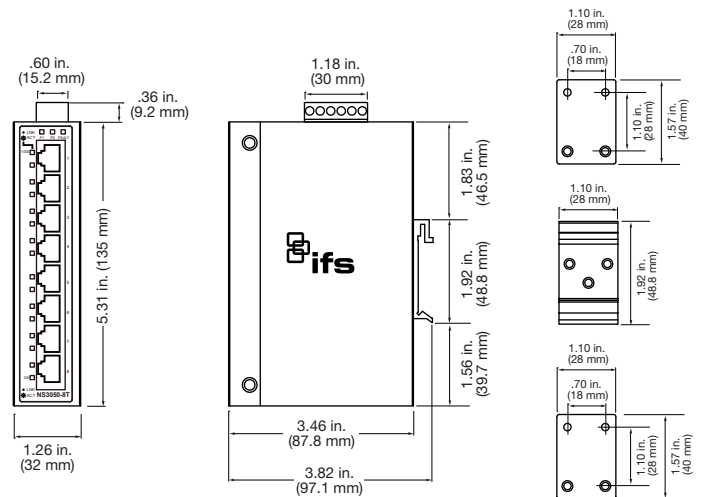
NS3050-8T	8-Port Unmanaged Industrial Ethernet Switch
Included Accessories	User's Manual, DIN-Rail Kit, Wall Mount Kit

Note: External power supply must be ordered separately.

Accessories

PS48VDC100W-DIN	48VDC@2A (100W) DIN-Rail Mount Hardened Power Supply (100–240VAC)
PS48VDC72W-US	48VDC, 1.5A 72W Power Supply

Dimensional Diagram



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Specifications subject to change without notice.

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