

NS3050-8T

8-Port 10/100/1000Mbps Unmanaged Industrial Gigabit Ethernet Switch (-40°C to +75°C)

Overview

The Carrier Fire & Security NS3050-8T Gigabit Ethernet Switches designed to deliver nonblocking, triple-speed performance (10/100/1000Mbps) in demanding, heavy industrial environments. A slim metal case makes the most of limited space.

The NS3050-8T EEE Green Eco-Power technology allows the switch to optimise power based on port connections, saving power when ports are not in use.

A 16Gbps internal switching fabric, combined with 9K jumbo packet support, provides a secure platform that can handle a large volume of traffic. Auto-negotiation between ports allows optimal speed detection through RJ-45 Category 6, 5 or 5e cables. An auto-MDI/MDI-X function allows connection to other hubs or switches, without the need for special straight or crossover cables.

With IP-30 aluminum industrial case protection, the NS3050-8T provides protection against electromagnetic interference and heavy electrical surges usually found on plant floors or in curbside traffic control cabinets. The Series also provides a wide range of power supply options suitable for multiple industries and for worldwide operation. Its operating temperature range from -40 to +75 degrees Celsius allows the managed industrial switch to be placed in almost any difficult environment.



Details

- 8-Port 10/100/1000Base-T RJ-45 ports with auto-MDI/MDI-X function for each port
- Auto-negotiation and 10/100Mbps (half/full-duplex) and 1000Mbps full-duplex mode
- Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T Ethernet standards
- EEE (Energy-Efficient Ethernet) Technology
- Store-and-forward switching architecture, wire-speed
- Back pressure (half-duplex) and IEEE 802.3x PAUSE frame-flow control (full-duplex) to prevent packet loss
- Integrated address-lookup engine with support for 2K absolute MAC address table
- 1.5Mbits SRAM packet buffer
- 9K jumbo packet-size support
- Automatic address learning and address aging
- CSMA/CD Protocol
- IP-30 metal case for protection that allows either DIN-rail or wall mounting
- 12 to 48 VDC and 24 VAC, redundant power with polarity-reverse protection and removable terminal block for master and slave power
- Hardened, Free-fall, shock and vibration stability, operates between -40°C ~ +75°C

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Technical specifications

General

Fault relay output	No
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Category

Category	Industrial
Management	Unmanaged
Managed	No
PoE	No

Physical ports

No. of ports	8
Port type	Gig
Speed	Gigabit

Switch Performance

Switch fabric	16 Gbps
Throughput (Mpps)	11.9
Mac table	4 K
Jumbo frame support	9 K

Electrical

Redundant power	Yes
Power supply type	12 to 48 VDC
Power consumption	8 W

Physical

Physical dimensions	135 x 87 x 32 mm
Net weight	400 g
Colour	Black
Material	Metal
Mounting type	DIN-rail, Wall mount
Stackable	No

Environmental

Operating temperature	-40 to +75°C
Storage temperature	-40 to -75 °C
Relative humidity	5 to 95% (non-condensing)
Environment	Indoor
IP rating	IP30

Regulatory

IEC standard	IEC60068-2-27 (shock), IEC60068-2-32 (free fall), IEC60068-2-6 (vibration)
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Hardware Specifications

10/100/1000Base-T Ports	8x 10/100/1000Mbps RJ-45 with Auto-MDI/MDI-X function for each port
Installation :	DIN-rail kit and wall-mount
Dimensions (W) x (D) x (H) :	135 x 87 x 32mm
Weight (gr.) :	461 g
EFT Protection :	6KV DC
ESD Protection :	6KV DC
Case Protection :	IP 30

Power Specification

Power Input :	12 to48 VDC and 24 VAC, Redundant power with polarity-reverse protection function
Power Consumption :	6.72 Watts
Power Connector :	6-pin removable screw terminal
Fault Alarm contact :	Alarm relay circuit accepts up to 24V DC, max. 1A current

Network Cables

10/100/1000Base-T:	Cat. 3, 4, 5, 5e, 6 UTP cable (100 meters, max.)
	EIA/TIA-568 100-ohm STP (100 meters, max.)

Switch Specification

Switch Processing	Store-and-forward
Scheme :	
Address Table :	4K MAC address table
Buffer :	176 Kbytes on-chip frame buffer
Flow Chart :	Back pressure for half-duplex, IEEE 802.3x Pause frame for full-duplex
Switch Fabric :	16Gbps
Throughput (Packet per second) :	11.9Mpps@64Bytes
Jumbo Frame :	9Kbytes

Environment Specification

Operating Temperature :	-40°C ~ +75°C
Operating Humidity :	Relative Humidity 5%~95% (non-condensing)
Storage Temperature :	-40°C ~ +75°C
Storage Humidity :	Relative Humidity 5%~95% (non-condensing)

Standards Conformance

Standards Compliance :	IEEE 802.3 10Base-T Ethernet
Standards Compliance :	IEEE 802.3u 100Base-T Fast Ethernet
Standards Compliance :	IEEE 802.3ab 1000Base-T Gigabit Ethernet
Standards Compliance :	IEEE 802.3x Flow Control and Back Pressure
Stability testing :	IEC60068-2-32(Free fall)
Stability testing :	IEC60068-2-27(Shock)
Stability testing :	IEC60068-2-6(Vibration)
Regulation Compliance :	FCC Part 15 Class A, CE

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As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

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