

NS2052-8P-2C

8-Port Unmanaged PoE-at Industrial Switch



OVERVIEW

The IFS® NS2052-8P-2C Industrial Unmanaged PoE Switch is designed for the most demanding IP network applications. Offering the flexibility of SFP technology and wide operating temperature range, the NS2052-8P-2C model provides full IEEE802.3-at (30w) PoE and serves as a PSE device.

SFP Technology

The NS2052-8P-2C supports 1000Base-X fiber via Small Form-factor Pluggable (SFP) technology. This switch can be custom configured to a variety of system design specifications by utilizing a variety of IFS SFP Mini-GBIC modules. IFS SFP Mini-GBIC modules are available in a variety of versions from multi-mode or single mode fiber, 1 or 2 fibers and wide-temperature versions.

PoE-at Power

The NS2052-8P-2C Switch helps optimize deployment and safe power management to PoE edge devices such as IP Surveillance cameras, access control panels, wireless access points (WAP) and Voice over IP (VoIP). Full power PoE-at (30w) is provided to all 8-ports with no power sharing, and added port circuit protection isolates and prevents power interference between ports.

STANDARD FEATURES

Ethernet

- 10/100 Base-T
- Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- Auto-negotiation and MDI/MDI-X
- 10/100 Base-T: 4-pair Cat. 5e/6 UTP cable, up to 100 meters

SFP (Mini-GBIC) Port

- Supports GigE SFPs
- 2 SFP slots provide for custom configuration
- Optical fiber and distance varies by SFP (ordered separately)

Power over Ethernet (PoE)

- Complies with IEEE 802.3at
- Inserts 52VDC (30w) power on Category network cable
- Protects non-PoE devices if accidentally connected
- Backwards compatible with IEEE 802.3af

Robust Hardened Design

- IP30 metal enclosure
- DIN-rail or wall-mounting
- 48VDC to 56VDC operation
- Redundant power with reverse-polarity protection
- Alarm relay output for power-failure alert
- 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 up to -40°C to +75°C

Warranty

- 3-year warranty

NS2052-8P-2C

8-Port Unmanaged PoE-at Industrial Switch

Specifications

Ethernet	NS2052-8P-2C
Data Rate	10/100 Base-TX port
Throughput (packet per second)	4.1Mpps
Switch Architecture	Store-and-forward
Jumbo Packet Size	16K
Flow Control	Back Pressure for Half Duplex, Mode Pause for Full-Duplex Mode IEEE 802.3x
Connector	RJ-45 (Auto-MDI/MDI-X)
Electro Static Discharge (ESD) Protection	6KVDC

Fiber	
Data Rate	1000Base-SX/LX/BX
Connector	SFP (Mini-GBIC) port
Fiber Type and Distance	Varies by SFP module

Power over Ethernet (PoE) Injector	
PoE Standard	IEEE 802.3-af/at
Power PIN Assignment	End-Span (+) Pins 1 & 2 (-) Pins 3 & 6
Power Output Per Port	PoE-af (15.4 Watts) or PoE-at (30 Watts)

LED Indicators & Controls	
Power/Status	Green/On - power
Power Fault	Red - power fault alarm
10/100/1000Base-TX port	LNK/ACT (Green), PoE in use (Orange)
SFP (Mini-GBIC) port link	LNK/ACT (Green), 1000T (Orange)

Electrical & Mechanical	
Power (Redundant with reverse polarity protect function)	48 to 56VDC (51VDC minimum recommended for PoE+)
Electrical Fast Transient (EFT) Protection	6KVDC
Alarm	Provides one relay output for power failure notification Alarm relay maximum current: 1A @ 240VDC
Power and Alarm Fault Connector	6-pin removable screw terminal
Enclosure	IP30 rated metal enclosure
Dimensions (W x D x H)	2.83 x 4.21 x 6.34 in. (72 x 107 x 161mm)
Weight	2.27 lbs. (1.034g)

Environmental	
Operating Temperature	-40°C to +75°C
Storage Temperature	-40°C to +75°C
Relative Humidity	0%~95% (non-condensing)

Standards Compliance	
IEEE	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX/100Base-FX IEEE 802.3ab 1000Base-TX IEEE 802.3z 1000Base-SX/LX/BX IEEE 802.3x Flow Control and Back Pressure IEEE 802.3af Power over Ethernet IEEE 802.3at High Power over Ethernet
EMI	EN 55022 CLASS A EN61000-3-2:2006 EN61000-3-3: 1995+1A:2001+A2:2005
EMS	EN 55024:1998+A1:2001+A2:2003 IEC 61000-4-2:2001 IEC 61000-4-3:2008 IEC 61000-4-4:2004 IEC 61000-4-5:2005 IEC 61000-4-6:2008 IEC 61000-4-8:2001
Stability	IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)

Ordering Information

NS2052-8P-2C	8-Port Unmanaged Industrial PoE Switch
Included Accessories	User's Manual, DIN Rail Kit, Wall Mount Kit

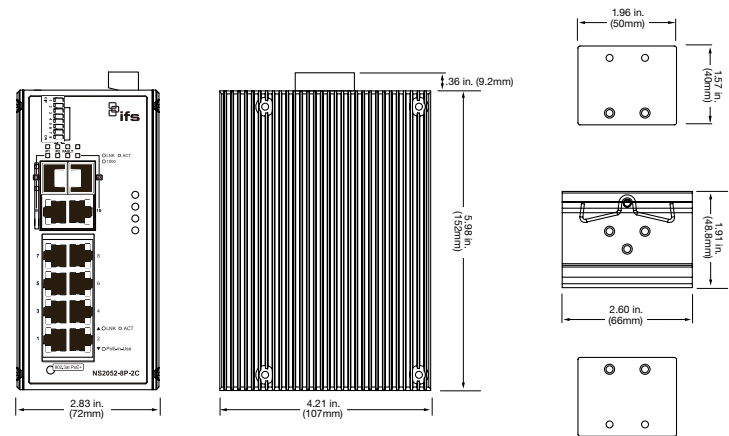
Note: These units require a Small Form-factor Pluggable (SFP) for operation. IFS SFPs are available for multi-mode, single mode, 1 or 2 fibers for various transmission distances over optical fiber. Please refer to the IFS SFP data sheet to select the appropriate SFP for your particular application needs. It is recommended that Gigabit SFPs be used for best performance.

Note: External power supply must be ordered separately.

Accessories

SFP	S30 Series
SFP	S35 Series (wide-temp)
SFP	S20 Series
SFP	S25 Series (wide-temp)
PS48VDC240W-DIN	48VDC, 5A (240W) DIN-Rail Mount Hardened Power Supply (100 to 240VAC)

Dimensional Diagram



interlogix.com

Specifications subject to change without notice.

© 2018 United Technologies Corporation.

All rights reserved.

All trademarks are the property of their respective owners.

Interlogix is part of UTC Climate, Controls & Security, a unit of United Technologies Corporation.

2018/03 (GSP-2619)