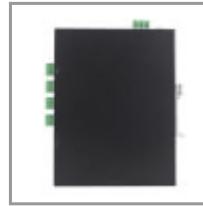
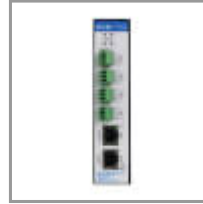


4-Port Single-Pair Ethernet (SPE) Industrial Switch - 10BASE-T1L, 10 Mbps, 1000 m, RJ45/Phoenix, -40° to 75°C, DC Power, TAA

MODEL NUMBER: NFI-U04-SPE



Enables long-distance Ethernet up to 1000 meters over one pair of copper wires, which reduces installation costs.

Features

SPE Switch Handles Critical Network Traffic up to 1000 Meters

The NFI-U04-SPE delivers longreach Ethernet capability using the 10BASE-T1L standard, enabling seamless migration from legacy fieldbus wiring to modern IPbased communication. With four 10BASE-T1L ports supporting a single-pair Ethernet (SPE) cable distance up to 1000 meters and two additional 10/100BASE-TX RJ45 ports, this switch bridges SPE field devices with broader industrial networks.

Ideal for Industrial Applications

The NFI-U04-SPE allows legacy sensors, actuators, PLCs and IIoT edge devices to connect seamlessly into modern IPbased infrastructures, which eliminates material and labor costs associated with pulling new Cat5e/6 or fiber cabling. The unmanaged switch's rugged, compact form factor and wide temperature tolerance make it ideal for factories, warehouses, building automation systems, surveillance networks and other harsh industrial environments.

Easy to Configure and Inexpensive to Operate

This plug-and-play NFI-U04-SPE can be mounted on a DIN rail within a cabinet or rack enclosure. An eight-position DIP switch allows control of Auto Mode, clock scheme and leader/follower settings. LED indicators provide realtime feedback on power, link/activity status, signal quality and uplink speed. The efficient 4W power consumption and 12–48VDC input compatibility streamline deployment across industrial automation, building controls and retrofit environments, which can drastically reduce your infrastructure costs.

Built to Withstand Harsh Environments

Designed for cabinet, control panel and field installations, the IP30-rated metal housing resists vibration, shock and electromagnetic interference (EMI). A wide range of operating temperatures from -40°F to 167°F (-40°C to 75°C) help make the NFI-U04-SPE a reliable operator in outdoor, surveillance, security, building maintenance and other extreme environments.

TAA-Compliant for GSA Schedule Purchases

The NFI-U04-SPE is compliant with the Federal Trade Agreements Act (TAA), which makes it eligible for GSA (General Services Administration) Schedule and other federal procurement contracts.

Highlights

- 10BASE-T1L ports bridge SPE field devices to broader industrial networks
- Dual 10/100BASE-TX uplink ports allow for flexible network integration
- Industrialgrade metal housing with wide -40°C to 75°C operating range
- DINrail or wall-mountable design for industrial control cabinets and edge deployments
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

Package Includes

- NFI-U04-SPE Industrial SPE Switch
- DIN-rail mounting kit
- (2) RJ45 rubber inserts
- User documentation



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Specifications

OVERVIEW	
UPC Code	037332300393
Product Type	Single Pair Ethernet (SPE) Industrial Switch
POWER	
Power Source	Terminal Block- 3pin
Power Consumption (Watts)	4.00
CONNECTIONS	
Number of Ports	4
Ports	4
Ports Detail	(x4) 10Base-T1L Ports
Network Switch Ports	10/100 (RJ45)
USER INTERFACE, ALERTS & CONTROLS	
LED Indicators	LEDs x8 : - PWR(Green): for Power - LNK/ACT 1~4th: for data transmitting/receiving on SPE 1~4th port (Green: Good link quality/Amber: Poor link quality) - 100 5~6th (Green): for Ethernet speed 100Mbps - LNK/ACT 5~6th (Green): for data transmitting/receiving - SFP 5~6th (Green): for speeds at 1000Mbps
PHYSICAL	
Primary Form Factor	DIN-Rail
Color	Black
Material of Construction	Metal
Form Factors Supported	DIN-Rail Mountable
Included Mounting Accessories	Yes
Shipping Dimensions (hwd / in.)	2.44 x 9.17 x 7.20
Shipping Dimensions (hwd / cm)	6.20 x 23.29 x 18.29
Shipping Weight (lbs.)	1.28
Shipping Weight (kg)	0.58
Unit Dimensions (hwd / in.)	3.920 x 1.970 x 4.560
Unit Dimensions (hwd / cm)	3.10 x 13.61 x 10.49
Unit Weight (lbs.)	1.09
Unit Weight (kg)	0.49
ENVIRONMENTAL	



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Operating Temperature Range	-40°F to 167°F (-40°C to 75°C)
Storage Temperature Range	-40°F to 185°F (-40°C to 85°C)
Relative Humidity	5% to 95% (Non-Condensing)
COMMUNICATIONS	
Network Compatibility	10 Mbps; 100 Mbps (Fast Ethernet)
Switching Capacity	480Mbps
FEATURES & SPECIFICATIONS	
Jumbo Frames	1536
OSI Layer	Layer 2
Console Port	No
MAC Auto Learning	No
MAC Addresses	1000
RMON	No
SNMP	No
Storm Control	Yes
DHCP Snooping	No
Auto MDI/MDIX Crossover Detection	No
STANDARDS & COMPLIANCE	
Product Certifications	CSA (Canada); ICES (Canada); UL Listed
Product Compliance	IEEE 802.3x Flow Control; RoHS; Trade Agreements Act (TAA)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	3-year limited warranty

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