

N-Tron® 105FX-ST Unmanaged 5-port Industrial Ethernet Switch

Item number: 105FX-ST

The N-Tron® Unmanaged 5-port Industrial Ethernet Switch meets data gathering, control and Ethernet I/O needs cost-effectively. This plug-and-play hubswitch has four 10/100BaseTX RJ-45 ports and one 2km 100BaseFX multimode fiber port with ST connector in a compact, durable metal case. Top performance for high-speed layer 2 switching in demanding industrial environments.



Unmanaged 5-port industrial Ethernet switch with copper and fiber connectivity

Features and benefits

- ✓ **Gather industrial data effectively and affordably**
Store-and-forward technology with full wire speed communication, high throughput and minimum downtime. Upgrade existing solutions with new bandwidth by eliminating network collisions.
- ✓ **2km Fiber optic uplink port**
Fiber optic uplink port enables long distance communication. Industry standard 100BaseFX multimode port includes ST connectors. Fiber distance rating of 2km without repeaters.
- ✓ **Metal DIN-rail enclosure**
Comes in a 35mm DIN-rail mountable hardened metal case. Compact design with a small footprint. Dimensions: 8.9 cm X 3.8 cm X 9.0 cm.
- ✓ **MAC address support**
Connect to advanced and complex network architectures with support for up to 2,000 MAC addresses.
- ✓ **Leading industry certifications for industrial environments**
IEEE 802.3 compliant. Certified UL Class I, Division 2 rating and CE approval. EN 50155 Rail and ABS Type approval for shipboard applications. Operating temperature of -40 °C to 70 °C.
- ✓ **Four RJ-45 auto-sensing 10/100Base TX RJ-45 ports**
RJ-45 ports auto sense duplex, speed and MDIX. Ethernet switching technology makes RJ-45 ports full/half duplex capable.
- ✓ **Automatic speed and flow control**
Automatically negotiates and configures speed and flow control of the RJ-45 ports.
- ✓ **Designed for industrial settings**
IP30 rating and extended environmental specifications delivers robust performance in harsh and hazardous industrial settings. Over 2 million hours MTBF.
- ✓ **LED status monitoring**
LED indicator lights display the link status and activity of each port and power on/off status.
- ✓ **Redundant DC power inputs**
Redundant DC power inputs (10-30 VDC) for increased reliability. ESD and surge protection on all built-in RJ-45 ports.

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General	
Net Weight (g)	270
Packed Width (mm)	152.4
Packed Height (mm)	101.6
Packed Depth (mm)	203.2
Packed Weight (g)	771
Operating Temperature °C Min	-40
Operating Temperature °C Max	70
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Relative Humidity	10% to 95% (Non Condensing)
Power Consumption (W)	0
Input Voltage (V)	10-30 VDC
Maximum Installation Altitude (m)	3048
Mounting	DIN rail mount (bracket included)
Housing Materials	Metal Housing
Packaging Material	Cardboard
Warranty (years)	3
Identification and Status	
Product ID	105FX-ST
Country of Origin	United States of America (the)

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Identification and Status

HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

Physical Features

Connectors / Input / Output	4x RJ45, 1x ST Duplex Port
Top Wiring Clearance (mm)	25.4
Front Wiring Clearance (mm)	101.6
SD Card Slot	No
Flash Drive	No
Contains Battery	No

Bluetooth Features

Net Data Throughput	Up to 1.0Gb/s
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Certifications and Standards

RoHS Compliant	No
CE	Yes
FCC	Yes
UKCA	No
UL	Yes
ATEX	No
DNV	Yes
KC	No
Mean Time Before Failure (MTBF)	>2,000,000 hours