



# N-Tron® 105FX-ST-MDR

## Unmanaged 5-port Industrial Ethernet Switch

**Item number: 105FX-ST-MDR**

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 with metal DIN rail clip. 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 and DIN-rail clip**  
Comes in a 35mm DIN-rail mountable hardened metal case. Metal DIN-rail clip is included for easily installation. 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)	770.1
Packed Weight (g)	770.1
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-MDR
Country of Origin	United States of America (the)
HS Code	8517620000
Dual Usage	No

## Physical Features

Connectors / Input / Output	4x RJ45, 1x ST Duplex Port
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## Physical Features

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