



# N-Tron® 105FXE-ST-15-MDR

## Unmanaged 5-port Industrial Ethernet Switch

**Item number: 105FXE-ST-15-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 15km 100BaseFX singlemode 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.
- ✓ **15km Fiber optic uplink port**  
Fiber optic uplink port enables long distance communication. Industry standard 100BaseFX singlemode port includes ST connectors. Fiber distance rating of 15 km 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.

# N-Tron® 105FXE-ST-15-MDR Unmanaged 5-port Industrial Ethernet Switch



## 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        | 105FXE-ST-15-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 |
|-----------------------------|----------------------------|

# N-Tron® 105FXE-ST-15-MDR Unmanaged 5-port Industrial Ethernet Switch



## 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 |
|---------------------|---------------|

## 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 |