



# N-Tron® 105FXE-SC-80-POE

## Unmanaged 5-port PoE Switch

**Item number: 105FXE-SC-80-POE**

The N-Tron® Unmanaged 5-port PoE Switch is built to transmit power and data. This plug-and-play unmanaged switch eliminates the need for complex electrical wiring. Four auto-sensing duplex-capable copper PoE ports and one 80 km, singlemode fiber optic port with SC connector in a compact metal case. High performance and durability in demanding industrial environments.

*Power over Ethernet and data transmission in a compact, unmanaged 5-port switch*

## Features and benefits

### ✓ Meet industrial data communications needs

Full wire speed communication, high throughput and minimum downtime. Upgrade existing solutions with new bandwidth by eliminating network collisions.

### ✓ Four 10/100BaseTX RJ-45 ports

RJ-45 ports auto sense duplex, speed and MDIX. Ethernet switching technology makes RJ-45 ports full/half duplex capable. RJ-45 ports also act as PoE ports.

### ✓ Auto-negotiated speed and flow control

Automatically negotiates and configures speed and flow control of the RJ-45 ports.

### ✓ Designed for industrial settings

Robust performance in harsh industrial settings. Suitable for hazardous, maritime and rail applications. Over 2 million hours MTBF.

### ✓ Viewable activity status

LED indicator lights display link status, port activity status, PoE status and power fault status.

### ✓ Redundant DC power inputs and with surge protection

Redundant DC power inputs (46-49 VDC) for increased reliability. Surge protection on power inputs. ESD protection on RJ-45 ports.

### ✓ Avoid electrical wiring costs with Power over Ethernet (PoE)

Power PoE-capable camera, device or wireless access point without running power lines or an AC power feed. Automatically senses connected PoE devices. 15.4 Watts per port and 13 Watts at the PD.

### ✓ 80km fiber optic uplink port

Fiber optic uplink port enables long distance communication. Industry standard 100BaseFX singlemode port includes SC connectors. Fiber distance rating of 80 km.

### ✓ Metal DIN-rail case

Comes in a 35 mm DIN-rail mountable hardened metal case. Compact design with a small footprint. Dimensions: 9.7 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 compliance certifications for industrial environments

IEEE 802.3 and 802.3af compliant. Certified UL Class I, Division 2 rating and CE approval. ABS and EN 50155, EN 50121 and EN 61373 Rail type approvals. Operating temperature of -40 °C to 85 °C.

### ✓ Auto-disconnect feature

Disables PoE power when a fault is detected on any PoE port, preserving data transmission and preventing equipment damage.

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## General

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Net Weight (g)                    | 770.1                             |
| Packed Weight (g)                 | 770.1                             |
| Operating Temperature °C Min      | -40                               |
| Operating Temperature °C Max      | 85                                |
| Storage Temperature °C Min        | -40                               |
| Storage Temperature °C Max        | 85                                |
| Relative Humidity                 | 10% to 95% (Non Condensing)       |
| Power Consumption (W)             | 0                                 |
| Input Voltage (V)                 | 46-49 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-SC-80-POE               |
| Country of Origin | United States of America (the) |
| HS Code           | 8517620000                     |
| Dual Usage        | No                             |

## Physical Features

|                             |                            |
|-----------------------------|----------------------------|
| Connectors / Input / Output | 4x RJ45, 1x SC 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 |
|---------------------|---------------|

## Certifications and Standards

|                                 |                  |
|---------------------------------|------------------|
| Protection Class IP             | IP20             |
| RoHS Compliant                  | Yes              |
| CE                              | Yes              |
| FCC                             | Yes              |
| UKCA                            | No               |
| UL                              | Yes              |
| ATEX                            | No               |
| DNV                             | Yes              |
| KC                              | No               |
| Mean Time Before Failure (MTBF) | >2,000,000 hours |