



N-Tron® 105FXE-ST-80-POE

Unmanaged 5-port PoE Switch

Item number: 105FXE-ST-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 ST 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 ST 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-ST-80-POE
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

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