



# N-Tron® 7012FXE2-SC-40-HV Managed 12-port Industrial Ethernet Switch

Item number: 7012FXE2-SC-40-HV

The N-Tron® 12-port Managed HV Industrial Ethernet Switch helps you deploy and manage network and remote monitoring features through a web browser, including auto IGMP configuration, diagnostics and ring configuration. Durable metal casing makes it ideal for harsh and remote sites. Eight copper 10/100 ports + 2 built-in 100Base 40km, singlemode fiber ports with SC connectors + 2 optional gigabit SFP ports.

*High-performing 12-port managed Ethernet switch for industrial connectivity with Gigabit uplink ports*

## Features and benefits

- ✓ **Easily connect and manage Ethernet-enabled devices**  
Deliver outstanding switch performance to industrial, railway and other harsh applications.
- ✓ **Built to withstand harsh industrial conditions**  
Rugged steel hardened enclosure with 35mm DIN-rail and rackmount options supports high performance in demanding industrial environments. Case dimensions: 10.8 cm X 8.2 cm X 11.7 cm.
- ✓ **Copper and fiber capability via 12 total ports**  
Connect devices to up to 12 ports, including eight 10/100BaseTX RJ-45 copper ports, two 100BaseFX multimode fiber ports with SC connectors and two optional SFP Gigabit transceivers.
- ✓ **Auto speed and MDIX configuration**  
10/100BaseTX ports are auto-sensing for duplex and MDIX and auto-configurable for maximum speed by default. Can also be hard-coded. Optional SFP transceivers.
- ✓ **Easy to configure management functionality**  
Fully managed features are easily configurable from a web browser. Set up SNMP, VLAN, Quality of Service (QoS), port trunking, port mirroring, IGMP, SNMP and RSTP to your specifications.
- ✓ **DHCP Server for Automatic IP address assignment**  
DHCP Server assigns IP addresses automatically. Includes DHCP Option 82 relay, Option 61 and IP fallback.
- ✓ **Switch status monitoring and LED indicators**  
Bi-color LED indicators are configurable to respond to alarm contact, power failure and N-Ring status..
- ✓ **Leading certifications for industrial environments**  
Suitable for hazardous and demanding environments with UL Class I, Division 2 listing, CE, EN50155 and ABS certifications. Over 2 million hours MTBF and operating temperature of -40 °C to 70 °C.
- ✓ **Real-time remote monitoring**  
N-View™ Windows-based software provides remote monitoring.
- ✓ **N -Ring™ technology with ~30ms healing time**  
N-Ring™ technology offers expanded ring size capacity to support up to 250 N-Tron managed switches. The ring manager provides complete fault diagnostics and ring health status via browser.
- ✓ **Enhanced Port Security**  
Port-based MAC address filtering delivers a high level of security to your network connections. Supports up to 8,000 MAC addresses.
- ✓ **Redundant power inputs and surge protection**  
Redundant power input (43-300 VDC). ESD and surge protection diodes on all ports.

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## General

Net Weight (g)	1132.5
Packed Weight (g)	1132.5
Operating Temperature °C Min	-40
Operating Temperature °C Max	70
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Relative Humidity	5% to 95% (Non Condensing)
Input Voltage (V)	43-300 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	7012FXE2-SC-40-HV
Country of Origin	United States of America (the)
HS Code	8517620000
Dual Usage	No

## Physical Features

Connectors / Input / Output	8x RJ45, 2x SC, 2x SFP
Top Wiring Clearance (mm)	26

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## Physical Features

Front Wiring Clearance (mm)	102
Contains Battery	No

## Certifications and Standards

Protection Class IP	IP30
RoHS Compliant	Yes
CE	Yes
FCC	Yes
UKCA	No
UL	No
ATEX	No
DNV	No
KC	No
Mean Time Before Failure (MTBF)	>2 million
Vibration and Shock	Shock: 50g @ 10ms; Vibration: 30g, 10-200Hz, triaxial