N-TRON
THE INDUSTRIAL NETWORK COMPANY

7026TX

7000 SERIES
Fully-Managed Switch

PRODUCT FEATURES

- Twenty-four (24) 10/100BaseTX RJ-45 ports
- Two (2) SFP gigabit ports
- -40ºC to 85ºC operating temperature (includes onboard sensor)
- Auto-sensing 10/100BaseTX, duplex, and MDIX on copper ports
- Up to 8.8 Gb/s maximum throughput
- ESD and surge protection diodes on all ports
- Hardened rackmount enclosure
- 18-49VDC redundant inputs
- Fault relay support
- Configurable bi-color (red/green) fault status LED

FULLY MANAGED FEATURES

- SNMP v1, v2, v3 and web browser management
- Configuration backup via optional SD card
- Detailed ring map and fault location charting
- N-Ring™ technology with ~30ms healing
- N-Link™ redundant N-Ring coupling
- N-View™ OPC monitoring
- RSTP - 802.1d, 802.1w, 802.1D RSTP
- IGMP auto-configuration
- 802.1Q tag VLAN and port VLAN
- 802.1p QoS, port QoS and DSCP
- EtherNet/IP™ CIP messaging
- LLDP (Link Layer Discovery Protocol)
- DHCP server, option 82 relay, option 61, IP fallback
- Port mirroring and trunking
- Local port IP addressing
- Port security—MAC address-based

BUILT FOR EXTREME CONDITIONS

The N-Tron® 7026TX Fully Managed Industrial Ethernet Switch delivers expanded port offerings, including gigabit capability, in a sleek 1U rackmount format for absolute flexibility. Loaded with a powerful combination of twenty-four (24) 10/100BaseTX copper ports and two (2) SFP gigabit ports, this unit is ideal for high-traffic industrial environments including process control, Ethernet I/O, data acquisition and other mission-critical applications.

ADVANCED RING TECHNOLOGY

Advanced N-Ring technology provides expanded capacity, detailed fault diagnostics, and fast ~30ms healing times in rings composed of N-Tron managed switches. The integrity of the N-Ring is continually monitored for error conditions. If a fault is detected, the ring converts to a linear topology within ~30ms, restoring communications in an instant. For convenience, users can easily access a detailed ring map and fault location chart through the ring manager's web browser or the OPC server. Each N-Ring accommodates up to 250 fully-managed N-Tron switches. N-Link easily connects multiple N-Rings, creating additional pathways to critical applications and increasing overall network resiliency.

MONITORING OPTIONS

N-Tron provides multiple means of network monitoring. The 7026TX's robust web-based interface provides a convenient dashboard to check and configure switch options, view network traffic, alarms, and trend information. For tightly controlled environments, N-View OPC server software easily combines with HMI control and monitoring applications to form a complete solution. iSNMP Suite Software is also available for link and status monitoring. Finally, a highly-visible user-configurable LED on the front panel clearly indicates switch status.

EASY TO USE

The 7026TX features 24 auto-sensing and auto-configuring 10/100BaseTX ports. Each copper port automatically negotiates maximum speed and performance. If preferred, these variables can be easily hardcoded through the user interface. A high-speed processor allows full wire speed on all ports simultaneously.

SPECIFICATIONS

Switch Properties
Number of MAC Addresses: 8000
Aging Time: Configurable
Latency (typical): 2.6 µs
Switching Method: Store-and-Forward

Case Dimensions
Height: 1.8" (4.6 cm)
Width: 16.1" (40.9 cm)
Depth: 5.4" (13.7 cm)
Weight (maximum): 4.0 lbs (2.1 kg)
Rackmount: 1U

Electrical
Dual Redundant Power Inputs: 18-49VDC (regulated)
Input Current (max): 605mA@24VDC
BTU/hr: 49.6@24VDC
N-TRON Power Supply: NTPS-24-1.3 (1.3A@24V)

Environmental
Operating Temperature: -40°C to 85°C
Storage Temperature: -40°C to 85°C
Operating Humidity: 5% to 95% (non condensing)
Operating Altitude: 0 to 10,000 ft.

Reliability
MTBF: >1 million hours

Network Media
10BaseT: ≥Cat3 cable
100BaseTX: ≥Cat5 cable
1000BaseT: ≥Cat5e cable

Connectors
10/100BaseTX: Twenty-four (24) RJ-45 copper ports
1000BaseT: Up to two (2) RJ-45 gigabit copper ports
1000BaseSX: Up to two (2) LC duplex gigabit fiber ports

Recommended Wiring Clearance
Front: 2" (5.1 cm)
Side: 1" (2.6 cm)

SFP Gigabit Fiber Transceiver Characteristics

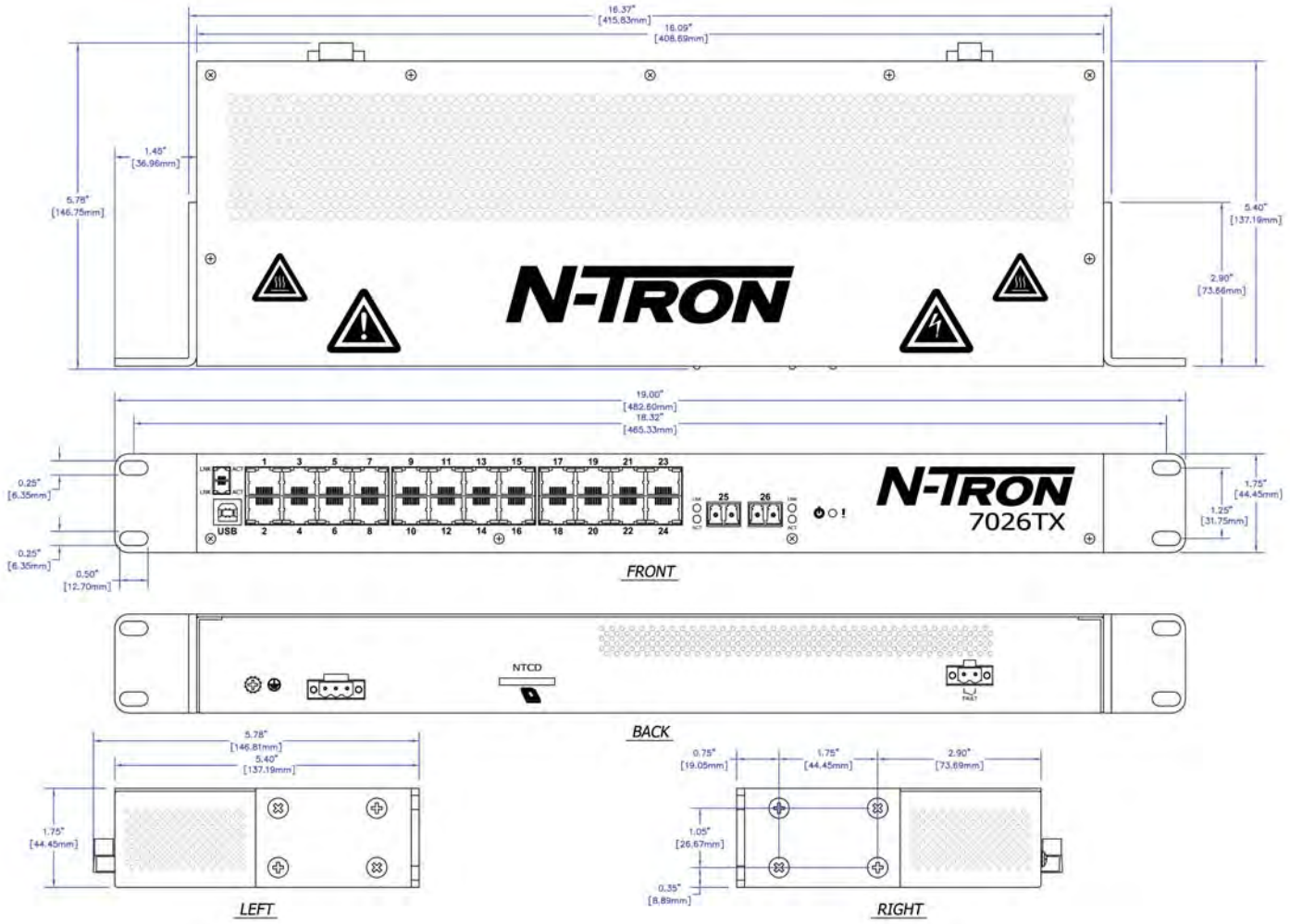
Fiber Length	550m for 50/125µm 275m @62.5/125µm*	10km**	40km**	80km**
TX Power Min	-9.5dBm	-9.5dBm	-2dBm	0dBm
RX Sensitivity Max	-17dBm	-20dBm	-22dBm	-24dBm
Wavelength	850nm	1310nm	1310nm	1550nm
Assumed Fiber Loss	-3.5 to 3.75 dB/km	-0.45dB/km	-0.35dB/km	-0.25dB/km

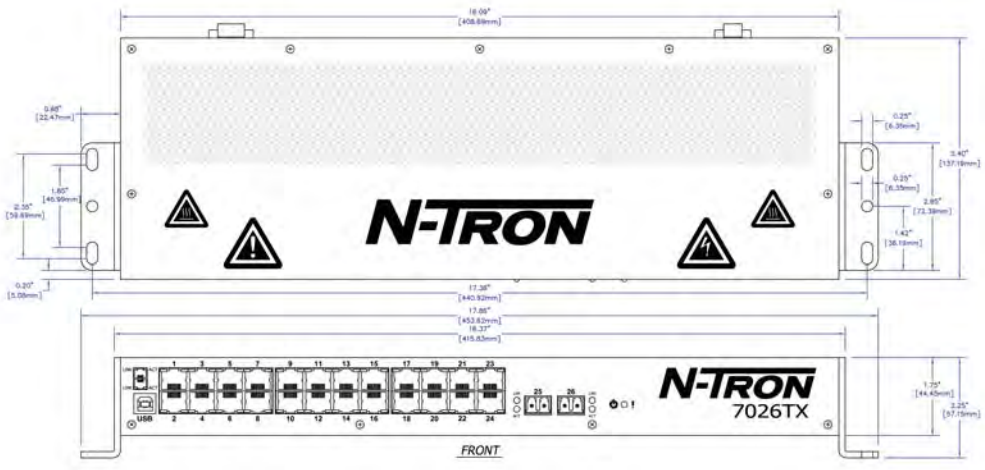
* SX Fiber Optic Cable
** LX Fiber Optic Cable

Regulatory Certifications
- EMI: ANSI C63.4; FCC CFR Title 47, Part 15, Subpart B - Class A; ICES-003 – Class A
- EMC: EN 61000-3-2/3 (Emissions), EN 55022 (Emissions), EN 55024 (Immunity), EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (RF), EN61000-4-8 (PFMF), EN61000-4-11 (VDI)
- GOST-R certified

RoHS compliant

Further information regarding this product's regulatory conformity can be found on the N-Tron website at www.n-tron.com/tech_docs.php





Drawing shows 7026TX dimensions with optional panel mount kit attached.
7026TX-PMK.....Panel mount kit

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
7026TX	26-port (24 10/100BaseTX, 2 SFP mini-GBIC gigabit expansion ports) fully-managed Industrial Ethernet switch, rackmount design, redundant 18-49VDC power input
NTSFP-TX	1000BaseT copper SFP pluggable mini-GBIC transceiver (RJ-45 connector)
NTSFP-SX	1000BaseSX multimode fiber SFP pluggable mini-GBIC transceiver (LC style connector)
NTSFP-LX-ZZ	1000BaseLX singlemode fiber SFP pluggable mini-GBIC transceiver (LC style connector)
NTCD-128	Optional configuration card for backup/restore
NTPS-24-1.3	N-TRON DIN-rail power supply (1.3 amp@24VDC)
7026TX-PMK	Panel mount kit

Where: ZZ = 10, 40, or 80 for GB singlemode (If SFP transceiver is not specified at the time of purchase, slots will remain blank with covers)