



### PRODUCT FEATURES

- Twenty-four (24) 10/100BaseTX RJ-45 ports
- Two (2) gigabit full duplex SFP ports supports optional:
  - 1000BaseSX/LX Fiber transceiver with LC style connectors
  - 1000BaseT Copper transceiver with RJ-45 connectors
- -40°C to 80°C 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
- Fault relay support
- Configurable bi-color (red/green) fault status LED
- 7026TX: 18-49 VDC redundant inputs
- 7026TX-AC: 90-264 VAC/90-300 VDC (regulated) input

### FULLY MANAGED FEATURES

- SNMP v1, v2, v3 and web browser management
- EtherNet/IP™ CIP messaging
- Configuration backup via optional SD card (part number NTCD-128)
- Detailed ring map and fault location charting
- N-Ring™ technology with ~30ms healing
- Redundant ring coupling
- N-View™ OPC monitoring
- RSTP - 802.1d, 802.1w, 802.1D
- IGMP auto configuration
- 802.1Q Tagged VLAN and port VLAN
- 802.1p QoS, port QoS and DSCP
- 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 and 7026TX-AC fully managed Industrial Ethernet Switches deliver expanded port offerings, including gigabit capability, in a standard 1U rackmount form factor. Loaded with a powerful combination of twenty-four (24) 10/100BaseTX copper ports and two (2) gigabit full duplex SFP ports, the 7026TX series is designed for high-traffic industrial environments including process control, Ethernet I/O, data acquisition and other mission-critical applications. Select the model based on your input power source—the 7026TX uses DC power; the 7026TX-AC accepts high-voltage AC or DC power.

### ADVANCED RING TECHNOLOGY

Advanced N-Ring technology provides expanded capacity, detailed fault diagnostics, and fast ~30ms healing times in rings composed of N-Tron fully managed switches. The integrity of the N-Ring is continually monitored for error conditions. If a fault is detected, the ring converts to a daisy chain topology and restores communications within ~30ms. For convenience, users can easily access a detailed ring map and fault location chart through the ring manager's 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. A robust browser interface offers convenient interaction with device settings and options, as well as viewing of network traffic, alarms, and trend information. N-View OPC server software dispenses important switch data that can be used by comprehensive monitoring and HMI applications. Finally, a highly-visible user-configurable LED on the front panel clearly indicates switch status.

### EASY TO USE

Both 7026TX models feature 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.

# 7026TX / 7026TX-AC

## SPECIFICATIONS

### Switch Properties

Number of MAC Addresses: 8000  
Aging Time: Configurable  
Latency (typical): 2.6  $\mu$ s  
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): 5.5 lbs (2.5 kg)  
19" Rackmount 1U

### Electrical

**7026TX:**  
Dual Redundant Power Inputs: 18-49 VDC (regulated)  
Input Current (max): 605mA @ 24 VDC  
BTU/hr: 49.6 @ 24 VDC  
N-TRON Power Supply: NTPS-24-1.3 (1.3A @ 24V) (sold separately)

**7026TX-AC:**  
Input Voltage: 90-264 VAC/90-300 VDC (regulated)  
Input Current (max): 215mA @ 120 VAC/110mA @ 124 VDC  
BTU/hr: 100 @ 120 VAC/47 @ 124 VDC

### Environmental

Operating Temperature: -40°C to 80°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:  $\geq$ Cat3 cable  
100BaseTX:  $\geq$ Cat5 cable  
1000BaseT:  $\geq$ Cat5e cable  
1000BaseSX Multimode: 50-62.5/125 $\mu$ m  
1000BaseLX Singlemode: 7-10/125 $\mu$ m

### 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: 4" (10.2 cm)  
Side: 1" (2.6 cm)  
Back (allows for power input):  
7026TX: 1" (2.6 cm)  
7026TX-AC: 2" (5.1 cm)

### SFP Gigabit Fiber Transceiver Characteristics

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

\* SX Fiber Optic Cable  
\*\* LX Fiber Optic Cable

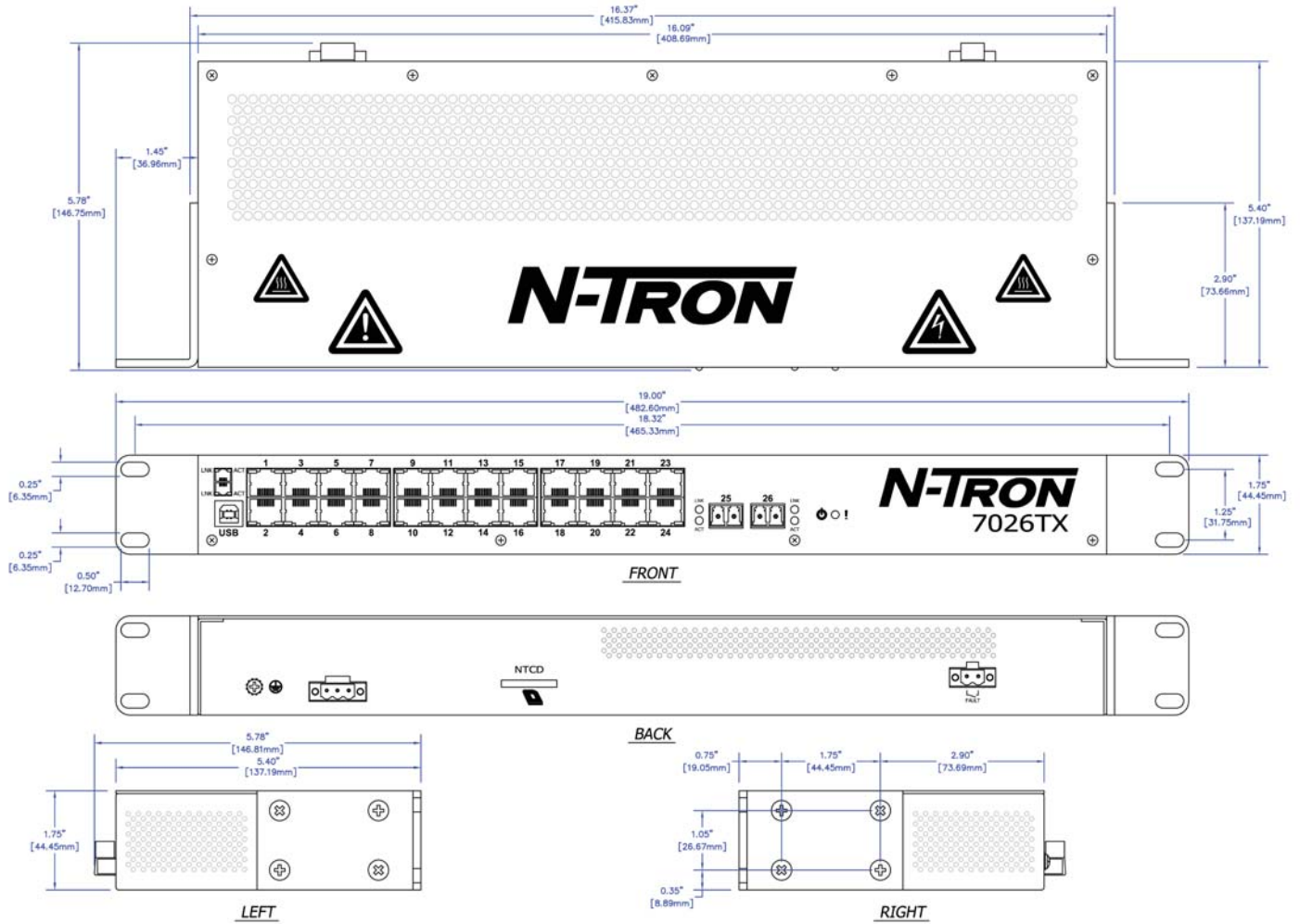
### Regulatory Certifications

- Safety: Class I, Division 2, Groups A, B, C and D, T4; UL 60950
- 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

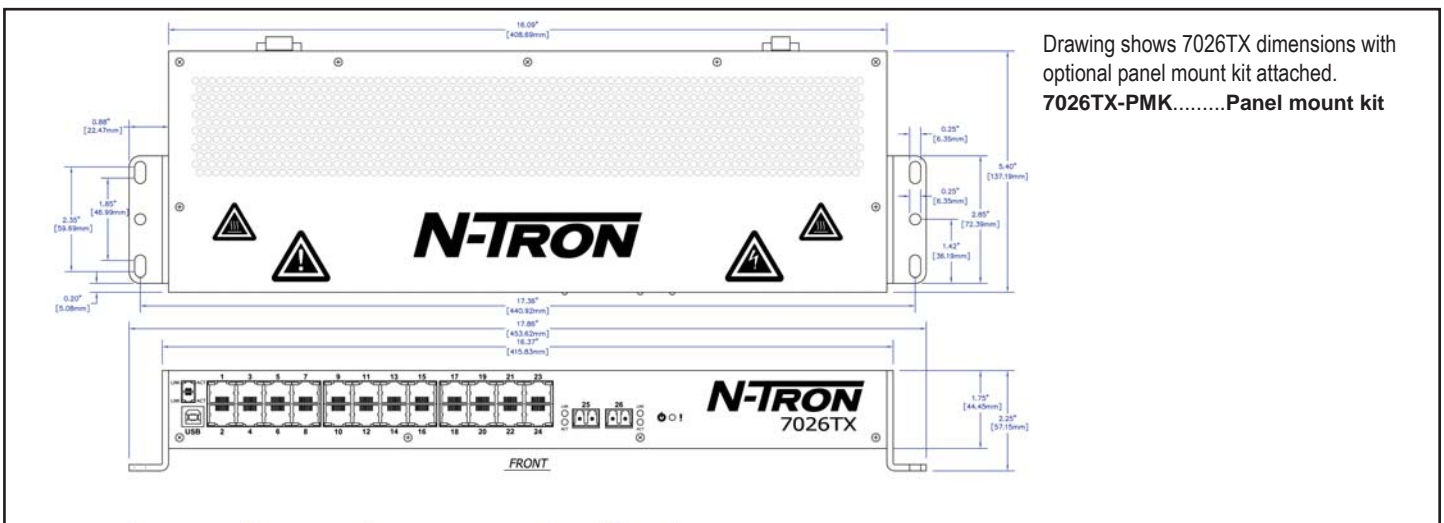


Further information regarding this product's regulatory conformity can be found on the N-Tron website at [www.n-tron.com/tech\\_docs.php](http://www.n-tron.com/tech_docs.php)





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 1000Base SFP mini-GBIC gigabit expansion ports) fully-managed Industrial Ethernet switch, 19" rackmount design, redundant 18-49 VDC power input
7026TX-AC.....	26-port (24 10/100BaseTX, 2 1000Base SFP mini-GBIC gigabit expansion ports) fully-managed Industrial Ethernet switch, 19" rackmount design, 90-264 VAC/90-300 VDC 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
7026TX-PMK.....	Panel mount kit
<b>7026TX Power Accessories</b>	
NTPS-24-1.3.....	N-Tron DIN-rail power supply (1.3 amp @ 24 VDC)
NTPC-AC-US.....	U.S. industrial high-temp power cord assembly for use with the 7026TX-AC Switch (cord length: 7 feet., gauge/conductor: 18/3, temp rating: 105°C, plug: NEMA 5-15, voltage rating: 300V)

Where: ZZ = 10, 40, or 80 for GB singlemode (if SFP transceivers are not specified at the time of purchase, ports will remain empty with covers)

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**QUALITY MANAGEMENT SYSTEM**  
**CERTIFIED BY DNV**  
**ISO 9001:2008**

RUGGED • RELIABLE • AFFORDABLE