Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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7026TX Industrial Ethernet Switch

N-Tron Networking Series

► ► ► **Managed Industrial Ethernet Switch**

PRODUCT FEATURES

- Twenty-four (24) 10/100BaseTX RJ-45 ports
- Two (2) gigabit full duplex SFP ports supports optional:
  - · 1000BaseSX/LX Fiber tranceiver with LC style connectors
  - · 1000BaseT Copper transceiver with RJ-45 connectors
- -40ºC to 80ºC 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.

industrial
networking

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): 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: -40ºC to 80ºC
Storage Temperature: -40ºC to 85ºC
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
1000BaseSX Multimode: 50-62.5/125µm
1000BaseLX Singlemode: 7-10/125µm

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

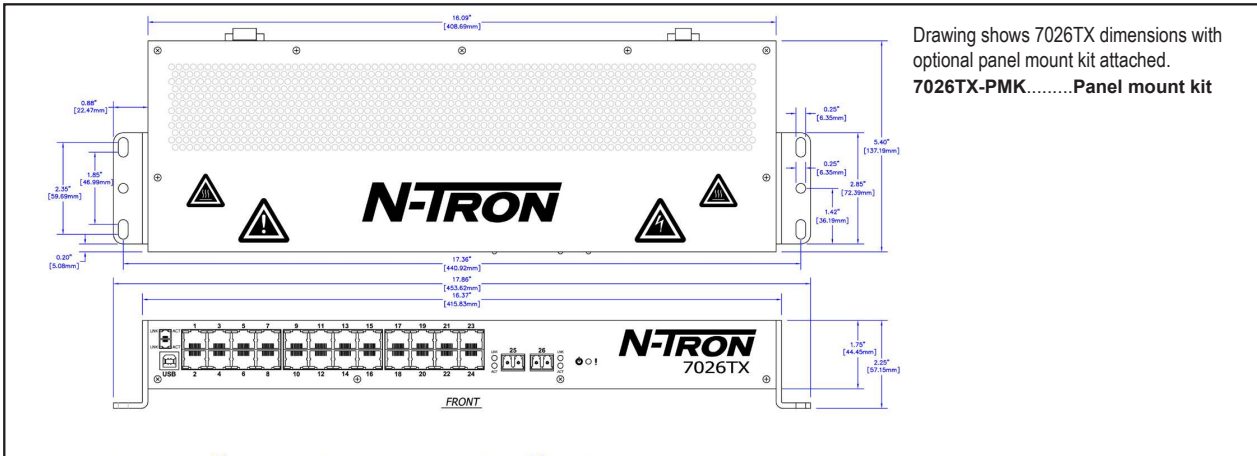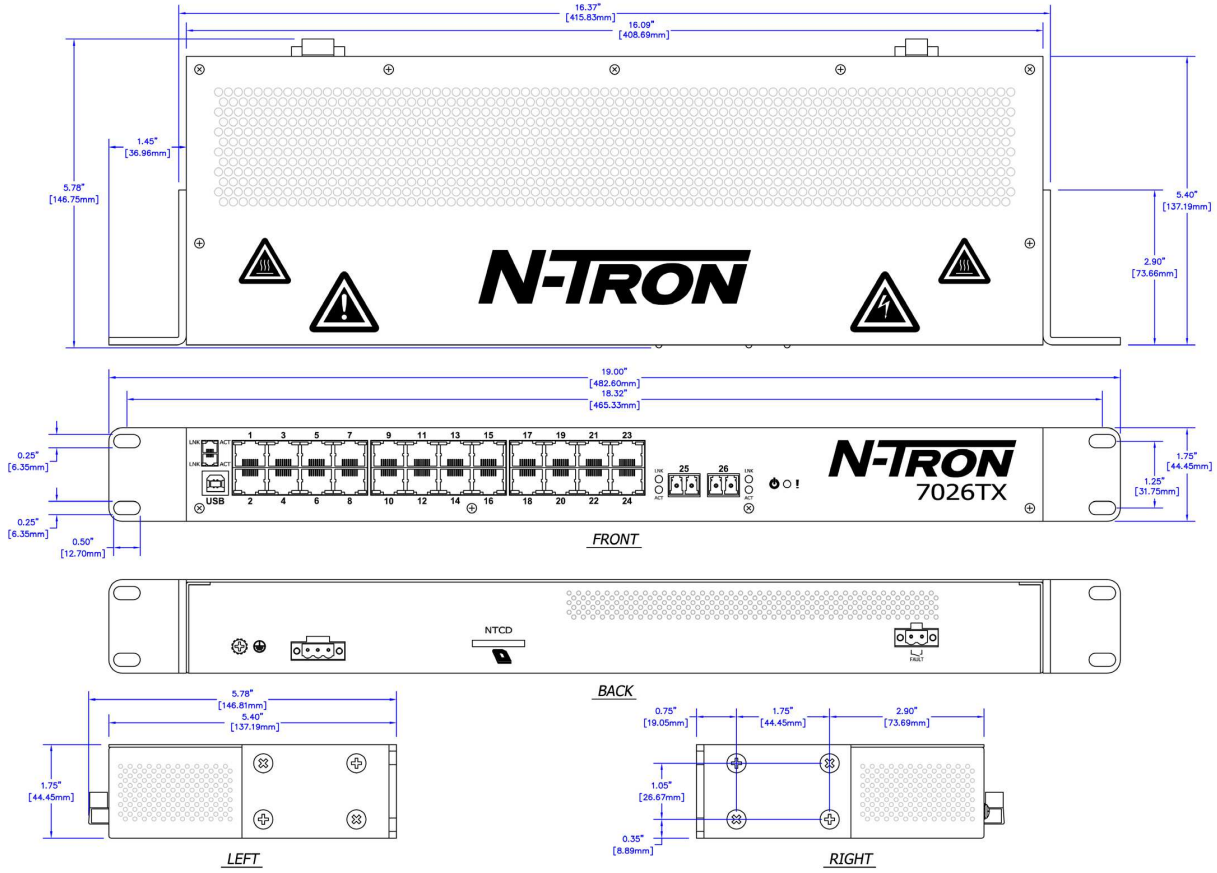| Fiber Length	550m for 50/125µm 275m @ 62.5/125µm*	10km**	40km**	80km**
TX Power Min	-9.5 dBm	-9.5 dBm	-2 dBm	0 dBm
RX Sensitivity Max	-17 dBm	-20 dBm	-22 dBm	-24 dBm
Wavelength	850 nm	1310 nm	1310 nm	1550 nm
Assumed Fiber Loss	3.5 to 3.75 dB/km	0.45 dB/km	0.35 dB/km	0.25 dB/km
Laser Type	VCSEL	DFB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

* SX Fiber Optic Cable
** LX Fiber Optic Cable

Regulatory Certifications
• UL 508 and C22.2 No. 14 for Industrial Control Equipment
  ANSI/ISA-12.12.01 and C22.2 N0. 13-M1987 for Class I,
  Div. 2 Groups A, B, C and D. T4
• 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

c(UL)us
LISTED
65SN

FC CE PCT

RoHS compliant EtherNet/IP

Dimensional Drawings

16.37"
[415.83mm]

16.09"
[408.69mm]

1.45"
[36.96mm]

5.78"
[146.75mm]

5.40"
[137.19mm]

2.90"
[73.66mm]

N-TRON

19.00"
[482.60mm]

18.32"
[465.33mm]

0.25"
[6.35mm]

0.25"
[6.35mm]

0.50"
[12.70mm]

LNK ACT
LNK ACT
USB

1 3 5 7 9 11 13 15 17 19 21 23
2 4 6 8 10 12 14 16 18 20 22 24

25 26

N-TRON
7026TX

1.75"
[44.45mm]

1.25"
[31.75mm]

FRONT

NTCD

FAULT

BACK

5.78"
[146.81mm]

5.40"
[137.19mm]

1.75"
[44.45mm]

LEFT

0.75"
[19.05mm]

1.75"
[44.45mm]

2.90"
[73.69mm]

1.05"
[26.67mm]

0.35"
[8.89mm]

RIGHT

16.09"
[408.69mm]

0.88"
[22.47mm]

2.35"
[59.69mm]

1.85"
[46.99mm]

0.20"
[5.08mm]

0.25"
[6.35mm]

0.25"
[6.35mm]

2.85"
[72.39mm]

1.42"
[36.19mm]

5.40"
[137.19mm]

17.36"
[440.92mm]

17.86"
[453.62mm]

16.37"
[415.83mm]

N-TRON

LNK ACT
LNK ACT
USB

1 3 5 7 9 11 13 15 17 19 21 23
2 4 6 8 10 12 14 16 18 20 22 24

25 26

N-TRON
7026TX

1.75"
[44.45mm]

2.25"
[57.15mm]

FRONT

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

7026TX Power Supply

NTPS-24-1.3	N-Tron DIN-rail power supply (1.3 amp @ 24 VDC)

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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As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our automation, Ethernet and cellular M2M technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. Red Lion is part of Spectris plc, the productivity-enhancing instrumentation and controls company. For more information, please visit www.redlion.net.