

714FX6

PRODUCT FEATURES

- Eight 10/100BaseTX RJ-45 Ports
- Six 100BaseFX Ports, ST or SC Style
- -40°C to 70°C Operating temperature
- Onboard Temperature Sensor
- ESD and Surge Protection Diodes on all Ports
- Auto Sensing 10/100BaseTX, Duplex, and MDIX
- Store-and-forward Technology
- Rugged DIN-Rail Enclosure
- Redundant Power Inputs (10-49VDC)
- Configurable Bi-Color Fault Status LED

FULLY MANAGED FEATURES:

- SNMP v1, v2, v3 and Web Browser Management
- Configuration backup via Optional SD card (NTCD)
- Detailed Ring Map and Fault Location Charting
- N-Ring[™] Technology with ~30ms Healing
- N-View[™] OPC Monitoring
- N-Link[™] Redundant N-Ring Coupling
- IGMP Auto configuration
- 802.1Q tag VLAN and Port VLAN
- 802.1p QoS, Port QoS, and DSCP
- EtherNet/IPTM CIP Messaging
- LLDP (Link Layer Discovery Protocol)
- Port Trunking
- Port Mirroring
- 802.1d, 802.1w, 802.1D RSTP
- DHCP Server, Option 82 relay, Option 61
- Local Port IP Addressing



The N-TRON[®] 714FX6 compact, fully managed industrial Ethernet switch is housed in a rugged industrial metal enclosure and offers a powerful combination of eight 10/100BaseTX copper ports and six 100Base fiber ports. It is ideally suited for use in industrial and utility applications such as factory floor control networks, electric power substations, wind turbines, wastewater treatment facilities, intelligent traffic control and transportation applications, and any other application where high reliability, superior noise immunity, extreme ruggedness, and extended distance are required.

Remote Monitoring Options - Web browser and N-View OPC (OLE for process control) server software provides configuration and monitoring capability. N-View software easily combines with HMI software to monitor network traffic, alarms, and trends. SNMP is also available for switch link and status monitoring. Status LEDs are configurable to indicate power failure and N-RING status.

N-Ring Technology - N-Ring technology provides expanded ring capacity, detailed fault diagnostics, and fast 30ms healing time. The ring manager validates the integrity of the ring using health check packets and quickly converts the ring to a linear topology within ~30ms when an error is detected. The health status of a ring comprised of all N-Tron fully managed switches may be monitored. A detailed ring map and fault location chart may be accessed by the ring manager's web browser or the OPC server. N-LinkTM allows the linking of two N-Rings. Up to 250 fully managed N-TRON switches are supported in an N-Ring topology.

Industrial Specifications - High MTBF, extended shock and vibration specifications, wide operating temperaturerange and redundant power inputs are standard features.

Ease of Use - The 10/100BaseTX ports are auto sensing and auto configuring. Each copper port is automatically negotiated for maximum speed and performance by default, but can also be hard coded through the user interface. A high speed processor allows wire speed capability on all 10/100BaseTX ports simultaneously.



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100 Mb Fiber Transceiver Characteristics

714FX6 Industrial Ethernet Switch Ordering Information

714FX6-XX	Eight 10/100BaseTX Ports, Six Multimode100BaseFX Fiber Optic Ports
714FXE6-XX-YY	Eight 10/100BaseTX Ports, Six Singlemode100BaseFX Fiber Optic Ports
NTCD128	Optional configuration card for backup / restore
NTPS-24-1.3	N-TRON Power Supply - (1.3 Amp @ 24VDC)
CPMA-2	Compact panel mount (factory installed option only)
URMK	Universal Rack Mount Kit
Where: XX = ST or SC	

YY = 15, 40, or 80 for Singlemode, Blank for Multimode

E = Singlemode, and Blank Otherwise

714FX6 Specifications

Switch Properties 15km* Fiber Length 2km³ 40km* 80km* Number of MAC Addresses: 8000 TX Power Min -19dBm/-14dBm -15dBm/-7dBm -5dBm/0dBm -5dBm/0dBm Aging Time: Programmable RX Sensitivity Max -34dBm -34dBm -34dBm -32dBm Latency Typical: 2.6 µs Wavelength 1310nm 1310nm 1550nm 1310nm Switching Method: Store-and-Forward Multimode Fiber Optic Cable ** Singlemode Fiber Optic Cable **Case Dimensions** Height: 4.3" (10.8 cm) Width: 3.1" (7.9 cm) Connectors 4.6" Depth: (11.5 cm) 10/100BaseTX: Eight (8) RJ-45 Copper Ports Weight (max): 1.8lbs (0.8 kg)100BaseFX: Six (6) SC or ST Fiber Duplex Ports DIN-Rail Mount: 35mm Electrical Redundant Input Voltage: 10-49 VDC (Regulated) **Recommended Wiring Clearance** Input Current (max): 690mA max.@24VDC (10.16 cm) Front: Side: (2.54 cm) NTPS-24-1.3 (1.3A@24V) N-TRON Power Supply: Environmental Regulatory Approvals Operating Temperature: -40°C to 70°C FCC: Title 47, Part 15, Subpart B, Class A; ICES-003: Class A; -40°C to 85°C Storage Temperature: ANSI C63.4 **Operating Humidity:** 5% to 95% (Non Condensing) CE: EN 61000-6-2, 4; IEC 61000-4-2, 3, 4, 5, 6, 8, 11 Operating Altitude: 0 to 10,000 ft. GOST-R Certified, RoHS Compliant Shock and Vibration (bulkhead mounted) CURRENTLY IN STANDARDS TESTING FOR: Shock: 200g @ 10ms UL/cUL: Hazardous Locations Class I, Div 2, Groups A, B, C, D, T4A 50g, 5-200Hz, Triaxial Vibration/Seismic: Non-hazardous Locations NASI/ISA 12.12.01-2007 Reliability MTBF: >2 Million Hours Designed to comply with: IEEE 1613 for Electric Utility Substations **Network Media** 10BaseT: >Cat3 Cable NEMA TS1/TS2 for Traffic control 100BaseTX: >Cat5 Cable IEC-61850 Contact Information N-TRON Asia N-TRON Corp. **N-TRON** Europe GmbH

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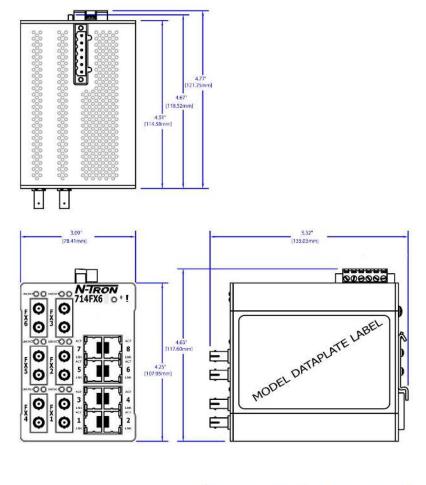
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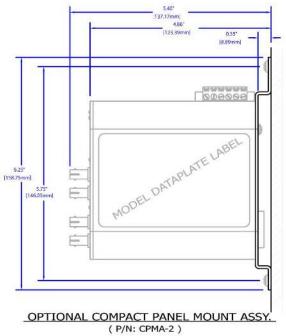
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