N-TRON
THE INDUSTRIAL NETWORK COMPANY

509FX-A

The N-TRON 509FX Series Industrial Ethernet Switch offers outstanding performance and ease of use. It is ideally suited for connecting Ethernet enabled industrial and/or security equipment and can be optionally configured with advanced Ethernet communication management functions.

PRODUCT FEATURES

- Full IEEE 802.3 and 1613 Compliance
- NEMA TS1/TS2 Compliance
- American Bureau of Shipping (ABS) Type Approval
- Eight 10/100 BaseTX RJ-45 Ports
- One 100BaseFX Uplink Port, ST or SC (shown)
- Extended Environmental Specifications
- Auto Sensing 10/100BaseTX, Duplex, and MDIX
- Store-and-forward Technology
- Up to 2.6 Gb/s Backplane Throughput
- Rugged Industrial DIN-Rail Enclosure
- Redundant Power Inputs (10-30 VDC)
- Bi-Color LED's For Link, Speed, Activity & Duplex Status

Advanced Management Features (With -A option only):

- IGMP Snooping
- Port VLAN
- QoS
- Port Trunking
- Mirroring
- N-View™ (Remote Monitoring Using OPC Technology)

Advanced Management Functions

The 509FX-A offers several management functions that can be easily configured using the COM Port (DB 9 Connector located on the right side of the switch.)

IGMP Snooping - Internet Group Management Protocol is a feature that allows the 509FX-A switch to forward multicast traffic intelligently.

VLAN - Virtual Local Area Network allows you to segment the switch in order to create two or more separate local area network domains.

QoS - Quality of Service provides prioritization of network traffic in order to provide better network service. The primary goal of QoS is to improve the latency of prioritized Ethernet packets required for ring management, real-time and other interactive applications.

Trunking - Port trunking (aggregation) enables multiple physical ports to be linked together and function as one uplink to another N-TRON trunking capable switch configured in the same manner, thereby increasing the bandwidth between switches. This configuration can provide increased bandwidth and redundancy to applications requiring high levels of fault tolerant operation.

Port Mirroring - This 509FX-A function allows the traffic on one port to be duplicated and sent to a designated mirror port. Port mirroring can be used to monitor Ethernet traffic on the designated source port using the assigned mirror port.

N-View OPC Switch Monitoring (With -A or -N Option Only)

The N-TRON N-View OLE for Process Control (OPC) Server Software can be combined with popular HMI software packages to add network traffic monitoring, trending and alarming to any application using N-TRON switches configured with the N-View option. N-TRON's N-View OPC Server collects 41 different traffic variables per port and 5 system level variables per switch. This information can provide a complete overview of the network load, service quality, and packet traffic. OPC client software can use N-View OPC Server data to resolve network problems quickly and improve system reliability.

Industrial Packaging and Specifications

The N-TRON 509FX is designed to operate in industrial environments. It is housed in a rugged steel enclosure that can be DIN-RAIL or Panel Mounted. Optional kits are available for rackmount applications. Like all N-TRON switches, the 509FX comes standard with extended temperature ratings, extended shock and vibration specs, redundant power inputs, and a high MTBF (greater than 2M hours).

Ease of Use

The N-TRON 509FX requires no setup unless the advanced port functions are utilized. The eight 10/100BaseTX ports are auto sensing and auto configuring. Each copper port is automatically negotiated for maximum speed and performance by default. The fiber optic uplink port supports full 200Mb/s communications via 100BaseFX. Bi-color LED's are provided to display the link status, link speed and activity of each port as well as power on/off status.

Performance

The N-TRON 509FX uses "state of the art" IEEE 802.3 Fast Ethernet 10/100BaseTX switching technology. This eliminates network collisions and increases network determinism. 4,000 MAC addresses are supported enabling sophisticated and complex network architectures. A high speed processor and backplane allows wire speed capability on all ports simultaneously.

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Yicheng Fang

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Unveiling the Power of Verbal Artistry: An Mental Sojourn through **N Tron 509fx User Guide**

In a global inundated with screens and the cacophony of immediate interaction, the profound energy and psychological resonance of verbal artistry often disappear in to obscurity, eclipsed by the continuous onslaught of noise and distractions. However, nestled within the lyrical pages of **N Tron 509fx User Guide**, a fascinating function of literary splendor that pulses with organic thoughts, lies an unique trip waiting to be embarked upon. Penned by a virtuoso wordsmith, this interesting opus instructions readers on a psychological odyssey, softly revealing the latent possible and profound affect stuck within the complicated internet of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is central styles, dissect their captivating writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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Table of Contents N Tron 509fx User Guide

1. Understanding the eBook N Tron 509fx User Guide
    - The Rise of Digital Reading N Tron 509fx User Guide
    - Advantages of eBooks Over Traditional Books
2. Identifying N Tron 509fx User Guide
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an N Tron 509fx User Guide
    - User-Friendly Interface
4. Exploring eBook Recommendations from N Tron 509fx User Guide
    - Personalized Recommendations

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