

# N-TRON

THE INDUSTRIAL NETWORK COMPANY

The Broadest Family Line in the Industrial Ethernet Marketplace

300



- Ideal switches for a small footprint and a tight budget

400



- Hardened switches with Class I, Div. 2 certification

500



- Managed plug-and-play switches ideal for EtherNet/IP applications

600



- High throughput ring managers with SNMP functions

900



- Modular switches perfect for Ethernet enabled industrial equipment

9000



- Fully managed modular switches with N-View, SNMP, and Web Browsing

## Key Reasons to Choose N-TRON

- Best environmental specs in the Industry
- Best reliability specs in the Industry
- Highest noise immunity in the Industry
- N-View™ Remote Monitoring available on low end models as well as high end switches
- We are the only vendor providing plug-and-play IGMP solutions for EtherNet/IP™
- Best Value Proposition in the Industry
- We carry the Highest MTBF plus the Lowest MTTR, providing our customers with Maximum Availability

For additional information contact:

**N-TRON, Corp**  
820 S. University Blvd.  
Suite 4E  
Mobile, AL 36609  
(251) 342-2164  
[www.n-tron.com](http://www.n-tron.com)  
[sales@n-tron.com](mailto:sales@n-tron.com)

© 2006 N-TRON, Corp. N-TRON, N-View, and the N-TRON logo are trademarks of N-TRON, Corp. U.S. Patent 6,728,262. EtherNet/IP is a trademark of Rockwell Automation, Inc. Specifications are subject to change without notice. Printed in USA.

## N-TRON gives you more ways to monitor your Industrial Ethernet Network



### N-View OPC Switch Monitoring

The N-TRON N-View OLE for Process Control (OPC) Server Software will work with industry standard OPC client software and most popular HMI packages to provide complete remote network traffic, status, and error monitoring for N-TRON 200, 300, 400, 500, and 900 Series Industrial Ethernet Switches with the N-View firmware option (part numbers with -A or -N extensions). N-View is also available as a standard feature on all 9000 Series switches. The N-View OPC Server software in combination with one or more of our industrial switches will add complete visibility to an HMI control and monitoring application.

### SNMP and Web Browser Monitoring

Along with N-View monitoring, our 9000 Series Four Slot Modular Industrial Ethernet switches come standard with plug-and-play SNMP and Web Browsing. SNMP or Simple Network Management Protocol is a common management platform that allows the monitoring of N-TRON switches as well as routers, hubs, servers or

workstations on a IP network. With SNMP, Administrators can monitor the performance of their network, find and solve problems, as well as plan for network growth.

For added monitoring convenience, our 9000 Series Ethernet switches can also be managed via a simple web browser.

### iSNMP Suite Software

IndustrialSNMP (iSNMP) Suite, software specifically designed for the industrial market, provides monitoring and analysis of N-TRON's 600 and 9000 Series, as well as SNMP capable devices from other manufactures. iSNMP Suite gathers raw SNMP data from the network devices and continually performs calculations to generate data that can be used, such as bandwidth utilization and network error rate statistics. iSNMP also offers Power supply management, MIB template generator, Tag filtering, Pre-built Tag Databases, SNMP Traps Support, and Auto-discovery. iSNMP Suite is available in three different HMI software editions (basic, expert, and enterprise) and will function seamlessly with any OPC compliant application.

# Rugged, Dependable Ethernet Switches



## 202MC / 405TX / 405FX Industrial Media Converter and Ethernet Switches

- One, Four, or Five RJ-45 10/100BaseTX Ports, Model Dependent
- One 100BaseFX ST or SC Duplex Port (202MC & 405FX)
- -20°C to 70°C Operating Temperature
- Redundant Power Inputs 10-30 VDC, 250mA @ 24V
- RJ-45 Ports Auto Negotiate Speed, Duplex, and MDIX
- Full Wire Speed Communications
- UL Listed Class I, Div 2 Hazardous Location Cert.
- N-View OPC Monitoring Option



## 604MFX / 608MFX Industrial Ethernet Switches

- Two or Six RJ-45 10/100BaseTX Ports, Model Dependent
- Two 100BaseFX ST Fiber Optic Ring Ports
- 0°C to 55°C (604MFX) 0°C to 60°C (608MFX)
- Fully Managed Switches
- RJ-45 Ports Auto Negotiate Speed, Duplex, and MDIX
- UL Listed Class I, Div 2 Hazardous Location Cert.
- Redundant Power Inputs 18-32 VDC, 1A @ 24V
- Up to 1 GB/s Throughput



## 900 Series Three Slot Modular Industrial Ethernet Switches

- Hardened Three Slot Modular DIN-Rail Chassis
- Two or Four 100BaseFX ST or SC Duplex Ports, Model Dependent
- Eight RJ-45 10/100BaseTX Ports, Model Dependent
- Redundant Power Inputs 10-30 VDC, 400mA @ 24V
- -20°C to 70°C Operating Temperature
- UL Listed Class I, Div 2 Hazardous Location Certification
- Up to 2.6 Gb/s Aggregate Bandwidth
- N-View OPC Monitoring Option

# Compact, Economical Industrial Switches



## 302MC Industrial Media Converter

- One RJ-45 10/100BaseTX Port
- One 100BaseFX ST or SC Full Duplex Port
- -20°C to 70°C Operating Temperature
- Redundant Power Inputs 10-30 VDC, 250mA @ 24V
- RJ-45 Port Auto Negotiates Speed, Duplex, and MDIX
- Full Wire Speed Communications
- UL Listed Class I, Div 2 Hazardous Location Cert.
- N-View OPC Monitoring Option



## 304TX / 306TX / 308TX Industrial Ethernet Switches

- Four, Six, or Eight RJ-45 10/100BaseTX Ports, Model Dependent
- Supports UTP or STP Cabling
- -20°C to 70°C Operating Temperature
- Redundant Power Inputs 10-30 VDC, 250mA @ 24V
- RJ-45 Ports Auto Negotiate Speed, Duplex, and MDIX
- Full Wire Speed Communications
- UL Listed Class I, Div 2 Hazardous Location Cert.
- N-View OPC Monitoring Option



## 305FX / 306FX2 Industrial Ethernet Switches

- Four RJ-45 10/100BaseTX Ports
- One or Two 100BaseFX ST or SC Full Duplex Ports, Model Dependent
- -20°C to 70°C Operating Temperature
- Redundant Power Inputs 10-30 VDC, 250mA @ 24V
- Full Wire Speed Communications
- RJ-45 Ports Auto Negotiate Speed, Duplex, and MDIX
- UL Listed Class I, Div 2 Hazardous Location Cert.
- N-View OPC Monitoring Option

# High Performance, Plug-and-play Switches



## 508TX / 509FX Industrial Ethernet Switches

- Eight RJ-45 10/100BaseTX Ports
- One 100BaseFX ST or SC Duplex Port, Model Dependent
- -40°C to 85°C Extended Operating Temperature
- Redundant Power Inputs 10-30 VDC, 200mA @ 24V
- Plug-and-play Advanced Management Options
- N-View OPC Monitoring Option (included with -A)
- Full Wire Speed Communications
- UL Listed Class I, Div 2 Hazardous Location Cert.



## 508FX2 Industrial Ethernet Switch

- Six RJ-45 10/100BaseTX Ports
- Two 100BaseFX ST or SC Duplex Ports
- -40°C to 85°C Extended Operating Temperature
- Redundant Power Inputs 10-30 VDC, 250mA @ 24V
- Plug-and-play Advanced Management Options
- N-View OPC Monitoring Option (included with -A)
- Full Wire Speed Communications
- UL Listed Class I, Div 2 Hazardous Location Cert.



## 516TX / 517FX Industrial Ethernet Switches

- Sixteen RJ-45 10/100BaseTX Ports
- One 100BaseFX ST or SC Duplex Ports, Model Dependent
- -40°C to 85°C Extended Operating Temperature
- Redundant Power Inputs 10-30 VDC, 400mA @ 24V
- Plug-and-play Advanced Management Options
- N-View OPC Monitoring Option (included with -A)
- Full Wire Speed Communications
- UL Listed Class I, Div 2 Hazardous Location Cert.

# High Speed, Advanced Management Switches



## 524TX / 526FX2 Industrial Ethernet Switches

- Twenty-four RJ-45 10/100BaseTX Ports
- Two 100BaseFX ST or SC Duplex Ports, Model Dependent
- -40°C to 85°C Extended Operating Temperature
- Redundant Power Inputs 10-30 VDC, 800mA @ 24V
- Plug-and-play Advanced Management Options
- N-View OPC Monitoring Option (included with -A)
- Up to 2.6 Gb/s Throughput
- UL Listed Class I, Div 2 Hazardous Location Cert.



## 9000 Series Managed Four Slot Modular Industrial Ethernet Switches

- Hardened Four Slot Modular DIN-Rail Chassis
- Six Port RJ-45 10/100BaseTX Modules
- Two and Four Port 100BaseFX Modules, ST or SC Duplex
- Two Optional 1000BaseSX/LX, LC Style Ports
- Hardened ESD Port Protection
- -20°C to 70°C Operating Temp -40°C to 85°C Storage Temp
- Redundant Power Inputs 10-30 VDC, 2.5 A @ 24V fully populated
- UL Listed, Class I, Div 2 Hazardous Location Cert.
- RJ-45 Ports Auto Negotiate Speed, Duplex, and MDIX
- Remote Switch Management (RMON)
- 1000Base Gigabit Fiber Ports Support 2000 Mb/s Communications
- Web Browsing and N-View OPC Switch Monitoring
- Full SNMP Based Management
- Optional iSNMP Suite Software available
- Standard Managed Features: IGMP Snooping, Trunking, Port Control, Port Mirroring, IEEE 802.1D, 802.1p QoS, 802.3, 802.3u, 802.3x, 802.1w RSTP, 802.1Q VLAN