

# N-TRON

## Embedded Device Networking for Industrial Environments

Ruggedized versions of computing equipment are commonplace in factories today. A large portion of this equipment is connected to the corporate network. Since industrial networking equipment has not been readily available, nodes are typically connected with individual wiring drops to climate controlled environments. This creates significant expense, complexity, and reliability issues. N-TRON solves this problem by providing a complete family of industrial networking equipment utilizing Multi-Tech's embedded SocketModem® modem modules and SocketEthernet IP® device servers.

N-TRON develops, manufactures, and markets highly reliable industrial network products designed to solve the most demanding communications requirements for mission-critical MIS, data acquisition, and control applications. This allows all Ethernet nodes (i.e. controllers, PLC's, industrial computers, remote I/O, etc.) to be interconnected locally with high speed uplinks to the corporate network.

The N-TRON 102RAS provides connectivity to an industrial LAN for telecommuters, or mobile users, or to remotely installed equipment, via an integrated Multi-Tech V.92/56K SocketModem embedded modem module. Housed in a compact, industrial, DIN-Rail enclosure, the small size makes it ideal for placing alongside other industrial equipment to be accessed remotely.

"The 102RAS makes it possible to access a LAN via a Multi-Tech SocketModem and monitor or control devices," explains Tony Oberkirch, Market Analyst for N-TRON. "In an industrial setting, this means a trip to the home or office computer versus a trip to the plant."

The SocketModem module offers 102RAS users password protection with callback security to help reduce long distance charges for remote offices and users requiring access to the central site LAN. It supports three security options. The "fixed" callback option stores a password and the remote user's phone number. Once the remote site enters their password, the 102RAS calls back using the number stored in its database. The "variable" option lets the user, such as road warriors, enter a fixed password and a variable call back number each time they call. The "pass through" option offers the security of password protection, while bypassing the call back process.

N-TRON also manufactures the 102PC-SE, a Legacy Serial to Ethernet Industrial Protocol Converter housed in a ruggedized DIN-Rail enclosure. With Multi-Tech's embedded SocketEthernet IP device server, the solution is designed to mount legacy serial devices to a LAN for use in industrial and remote monitoring, data collection, diagnostics, and numerous other applications.

The embedded SocketEthernet IP device server provides the powerful ability to IP-enable serial devices allowing more options for data acquisition and device management. The module integrates a processor, operating system, TCP/IP stack, web server and a network connection to provide a complete serial-to-Ethernet connectivity solution.

"We chose the SocketModem and SocketEthernet IP because they provide the network connectivity options our customers were looking for," said Oberkirch. "The ready-to-integrate devices helped reduce our development time and cost of getting our products on the market."

## SocketEthernet IP

- Embedded Serial-to-Ethernet device server
- IP-enable virtually any serial device
- Flexible IP protocol stack

## SocketModem

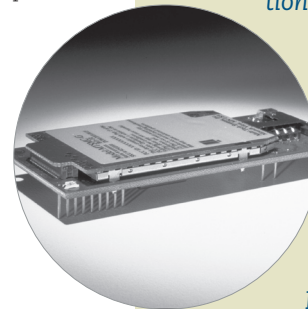
- Complete modem solution including the controller, data pump, and DAA
- Global compliance
- Quick-to-market solution

**N-TRON Corp.** develops, manufactures, and markets highly reliable industrial network products designed to solve the most demanding communications requirements for mission

critical industrial, data acquisition, Ethernet I/O, and control applications. Extremely wide operating temperature range, protection from ESD and power surge, steel enclosures to insure noise

immunity, redundant power inputs, and MTBF figures of 1-2 million hours are only a few of the factors that make

N-TRON the industrial network company.



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