



NSX-2000 LONWORKS[®] NETSERVER

The NSX-2000 NETSERVER provides seamless, reliable and secure connectivity of LONWORKS[®] control networks to any corporate IP (Internet Protocol) data network or the Internet. This host controller enables control, monitoring and management of up to 256 LONWORKS nodes with the ability to 'route' LONWORKS packets over the IP network between NSX-2000's. The NSX-2000 also supports integration with legacy / proprietary protocols through a wide range of drivers.

The applications supported in the NSX-2000 NETSERVER enable it to function as an area controller for a system or building enabling a variety of traditionally discrete controllers to be replaced by a single multi-functional controller. In addition to the Web serving capabilities and graphical design tools, the NSX-2000 NETSERVER also incorporates Alarm Handling, Data Logging, Scheduling and Optimum Start Stop services.

Web Serving

At the core of the NSX-2000 NETSERVER is the ALTITUDE Server, a Java based Web-serving application with a host of modular data services and applications. Standard html pages can be served directly to your Web browser, without the need for a dedicated graphical user interface. Multiple Client applications can then take control or monitor any part of the control network, subject to valid user authentication. This enables remote monitoring, diagnostics and support through the Internet or corporate data network. A diagnostic tool is pre-loaded which allows complete remote control over the IP network; this includes back-ups, upgrades, diagnostics and remote application development.

Rapid Application Engineering

Engineering tools have been built into the NSX-2000 NETSERVER to minimise engineering time of applications. Automatic learning of all nodes and associated network variables from the LNS database is incorporated, which logically display themselves in the project explorer. From here, nodes can be linked to graphical representations of the physical application and animations developed to suit. Intelligent 'Smart Components' can be created to generate generic graphical displays

from a single network variable to a whole node. Simply drag a LONWORKS network variable or node from the project explorer on to a graphic page and all the associated control points will configure themselves on the graphical view, automatically.

Simple Management Tool with Scalability

The NSX-2000 NETSERVER is able to provide real-time control and monitoring from a single network variable running in a Java Applet on multiple desktops, e.g. set-point control, right through to control of a complete system. Complex applications can be dramatically simplified through logical navigation and graphical representation of systems.

The NSX-2000 NETSERVER also benefits from the scalable LNS architecture that allows a single remote LNS database on the IP network to manage multiple NSX-2000 NETSERVER's. Alternatively a single LNS database can be hosted within the NSX-2000 NETSERVER. The controller will also support LONMAKER for Windows to provide network management of the LONWORKS network.

Web Configurable Applications

Configuration and presentation of the following applications are available through the browser/client:

Alarm Handling Full alarm handling of LONWORKS variables can be provided from the network or via logic configured in the controller. Alarm data can be stored in the controller or on a remote server in an SQL, Oracle or Access database. E-mails can also be generated based on alarm events.

Data Logging Presentation of the logged data is available through configurable web pages. The data is logged on interval or event and can be stored locally in the controller or on a remote IP server in a SQL, Oracle or Access database.

Scheduling Multiple time schedules programmed through the configurable web pages. Triggers from a schedule can start functions such as logging or set the value of a network variable. Holidays and Specials Days are also graphically configured through the browser.



Features

- Routing of LONWORKS packets over IP compliant with the EIA and ANSI standards
- Web Configurable Alarm Handling, Data Logging and Scheduling
- Integration to third party systems and protocols
- Alarms and Logged data can be stored locally or on remote server (via IP)
- Operates on Local LNS™ Database within the NSX-2000 NETSERVER or on a remote LNS™ Database (via IP)
- Viewed through standard browsers such as Internet Explorer™ or NetScape Navigator™
- E-mail support for alarms and events based on exception reporting
- Simultaneous connections from multiple Web browsers
- Smart Components automate generic graphical displays
- Secure Internet access through User Authentication
- Engineering tools to aid rapid development of application
- Dial-up Network Services supported

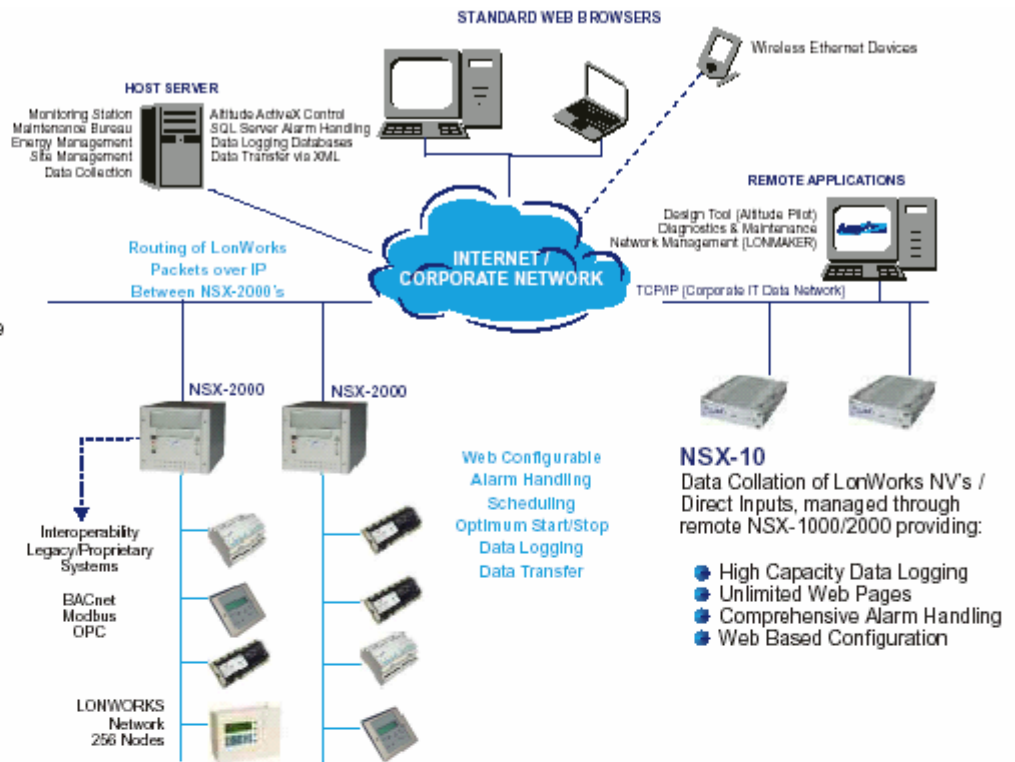


Data transfer to Remote Servers

Altitude-X, provides a mechanism to extract data from an NSX-2000 NETSERVER to enable data to be monitored and controlled from remote applications. This software component is based on an Active-X control and allows other applications to communicate with the NSX-2000 NETSERVER, via the IP network.

Connectivity to Third Party Systems / Protocols

Through the addition of a communication drivers (optional extra) the NSX-2000 NETSERVER provides integration between LONWORKS and many proprietary and open protocols. A wide range of Ethernet and Serial drivers are supported including BACnet, Modbus and OPC.



Specification



NSX-2000 NETSERVER

- Memory **▶** 40GB Hard Drive / 256MB Ram
- Transceiver Type **▶** TP/FTT-10A
- Power Supply **▶** 110/230 VAC
- Power Connector **▶** IEC
- LONWORKS Twisted Pair Connector **▶** Weidmuller 2-Conductor SLA 2/90
- Supported Number of LonWorks Nodes **▶** 256
- Standard Internetworking Protocols **▶** SNMP, TCP/IP, DHCP, HTTP, FTP, SMTP
- Ethernet Interface **▶** 10BaseT / 100BaseT
- Ethernet Connector **▶** RJ-45
- Serial Ports **▶** 1 x RS-232 / 2 x USB
- Status Indicators (LED's) **▶** Power, Ethernet Link, Ethernet RX/TX
- Clock **▶** Real Time, Battery Backed
- Mounting **▶** Desk Mount
- Dimensions **▶** 280D x 200W x 181H mm
- Operating Temperature **▶** 0° to +50°C
- EMI **▶** CE / FCC / UL

The NSX-2000 NETSERVER has been designed for applications where there are multiple Web Servers on a single site or campus and LONWORKS data needs to be passed between the Web Servers.