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# NION-SPB

## UniNet™ 2000 Network Input/Output Node

Section: Network Systems

## General

The **NION-SPB** provides an information gateway between the **UniNet™ 2000** facilities monitoring system *(version 2.0 or higher)* and one of the following: a single **ONYX™ Series NFS-640** or **NFS-3030** panel, or a **NOTI•FIRE•NET**™ network *(version 4.0 or higher)* of NOTIFIER fire alarm systems. All UniNet™ 2000 system components are based on LonWorks™ technologies. The NION-SPB provides transparent or interpreted communications between the workstation and the control panels.

The NION-SPB uses a serial EIA-232 interface. It may be powered by any 24 VDC power-limited, filtered source with battery backup that is UL-Listed for use with fire protective signaling units.

The NION-SPB allows viewing and editing of panels and devices through **NFN Explorer**. NFN Explorer is a Windows®-based application incorporated into the UniNet™ 2000 Workstation *(version 2.0 or higher).* NFN Explorer provides the user with a familiar Windows®-Explorer-style interface.

## Features

- Stand-alone interface to NFS-640 and NFS-3030.
- Network interface to **NOTI•FIRE•NET™** *(version 4.0 and higher)*.
- UniNet™ 2000 compatible *(version 2.0 and higher)*.
- Echelon® network interface (UniNet™ 2000).
- EIA-232 interface.
- Battery-protected RAM.
- ***Six status LEDs indicate:***
  - Binding Status (Echelon®)
  - Heartbeat (Echelon® processor)
  - Network Data Transmitted/Receive (Echelon®)
  - Interprocessor Communication Link Status
  - Heartbeat (processor)
  - Serial Data Transmitted/Received

## Specifications

- Powered from any UL-Listed auxiliary power supply.
- Power requirements: field-selectable 24 VDC @ 200 mA.
- Long-life battery for nonvolatile RAM with voltage monitoring.
- 256K battery-protected RAM.
- Transformer-coupled network connection for wire applications.
- Communicates on LonWorks™-based network operating at 78.5 Kbaud over twisted-pair wire or multi-mode fiber. Bidirectional fiber (**DFXC**) 1250 Kbaud.
- Network connections via standard screw terminals, EIA-232 connections via a network cable.
- Operating temperatures: 32°F to 120°F (0°C to 49°C).
- Storage temperatures: -40°F to +176°F (-40°C to +80°C).



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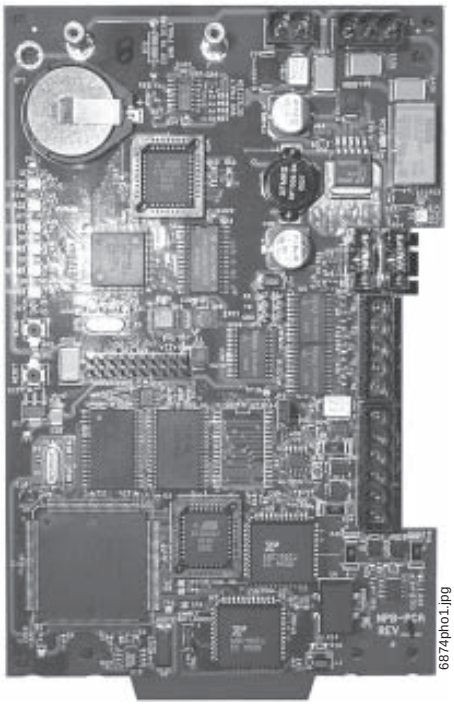


## Installation

The NION-SPB requires enclosure in a cabinet or dress panel. Use **CAB-3 Series** *(see DN-3549)*, **CAB-4 Series** *(see DN-6857)*, **ABS-4D** *(see DN-6862)*, or **NISCAB-1** cabinets; **CHS-4L** or **CHS-M2** chassis; and **DP-1B** blank dress panel.

**Installing a NION™ within the NFS-640/-3030 Rows:** The first row of equipment in the cabinet mounts in chassis CHS-M2 or CHS-M3. Mount the second, third, or fourth rows of equipment in chassis CHS-4MB/-4N (see panel installation manuals regarding panel circuit modules) or CHS-4L (for voice components, see *Voice Alarm System Manual*).

**Positions:** A chassis offers four basic side-by-side positions for components; the number of modules that can be mounted in each position depends on the chassis model and the size of the individual module. There are a variety of standoffs and hardware items available for different combinations and configurations of components. ***See diagram on page 2.***

**⚠CAUTION!**

***It is critical that all mounting holes of the NFS-640/NFS-3030 are secured with a screw or standoff to ensure continuity of Earth Ground.***

**NOTIFIER®** is a **Honeywell** company.

For more information, contact **NOTIFIER.** Phone: (203) 484-7161 FAX: (203) 484-7118

NOTIFIER® 12 Clintonville Road, Northford, Connecticut 06472

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Made in the U.S.A.

## Panel/System Applications

The NION-SPB is compatible with:

- **AFP-200** with NAM-232 W/F version 4.0
- **AFP-300**/**400** with NAM-232 W/F version 4.0
- **AFP1010**/**AM2020** with SIB-NET version 4.0
- ONYX™ Series **NFS-640** and **NFS-3030**
- **NCA** Network Control Annunciator
- **NCS** (Network Control Station) version 2.0

The NION-SPB can also be networked to provide the same protection for several nodes at a single site or across an entire campus/multiple sites. All alarm information can be reported and controlled from one or multiple UniNet™ 2000 workstations.

NION-SPB allows UniNet™ 2000 workstations to directly configure, monitor, and control: one or more NFS-640/-3030 panels on a UniNet™ 2000 Echelon®-based network; or an entire **NOTI•FIRE•NET**™ network *(version 4.0 or higher)*. ***See examples.***

## Agency Listings and Approvals

See the first page of this data sheet for listing agencies and file numbers. These listings and approvals apply to the NION-SPB. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

## Ordering Information

**NION-SPB**: Network Input/Output Node network protocol conversion platform. Compatible with ONYX™ Series control panels on a UniNet™ 2000 *(version 2.0 or higher)* Echelon®-based network, or with the NCM-W/F when interfacing to a **NOTI•FIRE•NET**™ network *(version 4.0)*. *Requires one transceiver (below) and an EPP personality module kit (below).*

**EPP-NFN-FT**: Personality-integrated circuit chip set and network cable. Configures NION-SPB for a free-topology network interface. Personality chip set is compatible with a stand-alone ONYX™ Series control panel on a UniNet™ 2000 network *(version 2.0 or higher),* or with the NCM-W/F when interfacing to a **NOTI•FIRE•NET**™ network *(version 4.0)*. *Order with FTXC, FOXC or S7FTXC.*

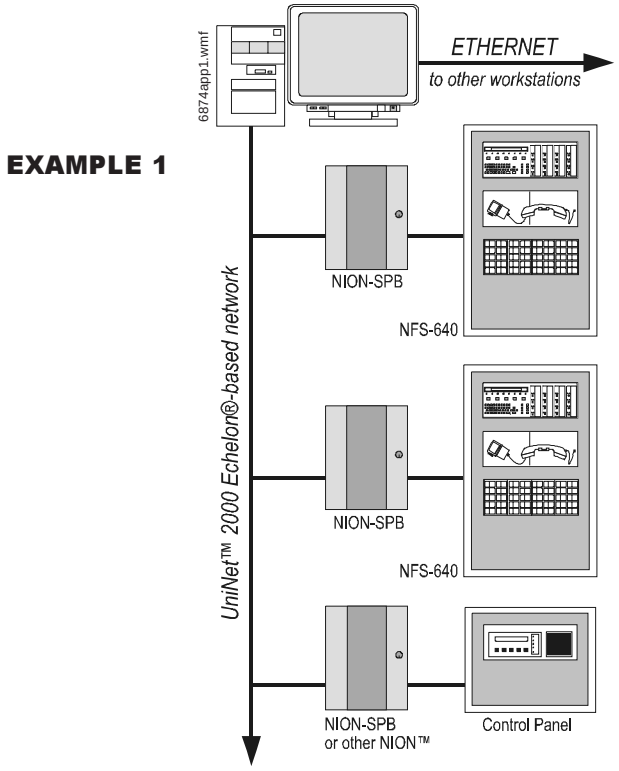
**EPP-NFN-DF**: Personality-integrated circuit chip set and network cable. Configures NION-SPB for a fiber-optic bidirectional transceiver (**DFXC**) interface. Personality chip set is compatible with a stand-alone ONYX™ Series control panel on a Uni-Net™ 2000 network *(version 2.0 or higher),* or with the NCM-W/F when interfacing to a **NOTI•FIRE•NET**™ network *(version 4.0)*. *Order with DFXC.*

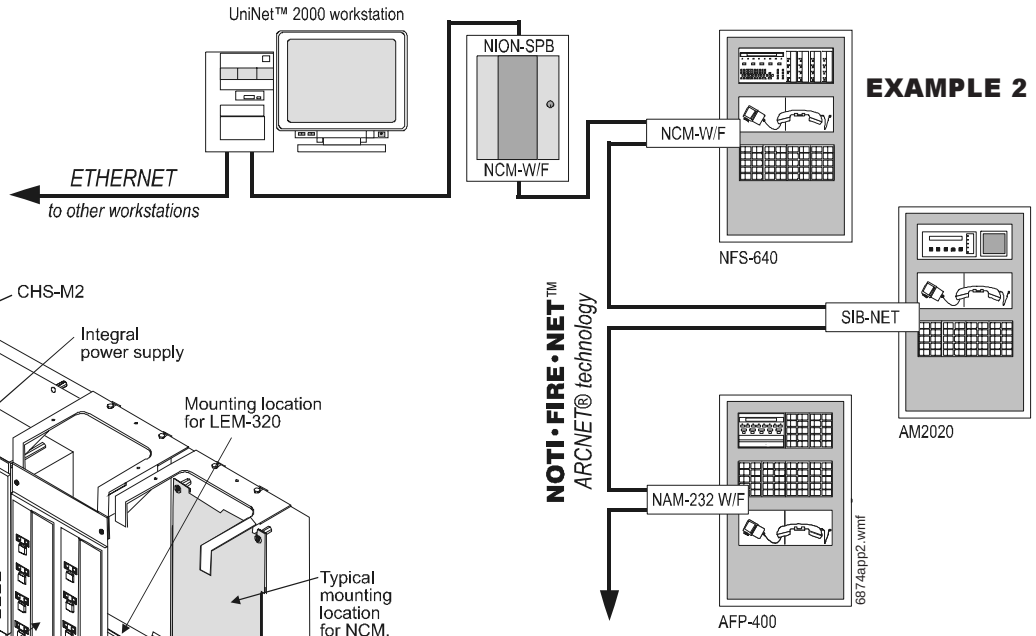
**FTXC**: Free-topology twisted-pair transceiver. *Order with EPP-NFN-FT.*

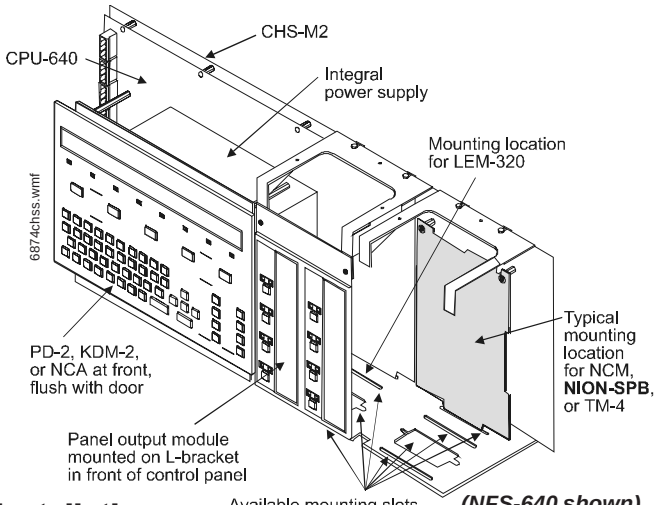
**S7FTXC**: Style 7, free-topology, UniNet™ 2000 Echelon®-based transceiver. *Order with EPP-NFN-FT.*

**FOXC**: Fiber-optic star-configuration transceiver. *Order with EPP-NFN-FT.*

**DFXC**: Fiber-optic bidirectional transceiver. *Order with EPP-NFN-DF.*




***(NFS-640 shown)***

**Installation Diagram**

### Application Examples

**EXAMPLE 1: UniNet™ 2000 Network**
with NION-SPBs monitoring individual panels.

**EXAMPLE 2: NOTI•FIRE•NET™ Network**
using a UniNet™ 2000 workstation.