

High-speed PC NFN Gateway

NFN-GW-PC-HNMF

NFN-GW-PC-HNSF

NFN-GW-PC-HNW, NFN-GW-PC-HNW-2

Installation and Operation Manual



# Fire Alarm & Emergency Communication System Limitations

*While a life safety system may lower insurance rates, it is not a substitute for life and property insurance!*

**An automatic fire alarm system**—typically made up of smoke detectors, heat detectors, manual pull stations, audible warning devices, and a fire alarm control panel (FACP) with remote notification capability—can provide early warning of a developing fire. Such a system, however, does not assure protection against property damage or loss of life resulting from a fire.

**An emergency communication system**—typically made up of an automatic fire alarm system (as described above) and a life safety communication system that may include an autonomous control unit (ACU), local operating console (LOC), voice communication, and other various interoperable communication methods—can broadcast a mass notification message. Such a system, however, does not assure protection against property damage or loss of life resulting from a fire or life safety event.

The Manufacturer recommends that smoke and/or heat detectors be located throughout a protected premises following the recommendations of the current edition of the National Fire Protection Association Standard 72 (NFPA 72), manufacturer's recommendations, State and local codes, and the recommendations contained in the Guide for Proper Use of System Smoke Detectors, which is made available at no charge to all installing dealers. This document can be found at <http://www.systemsensor.com/appguides/>. A study by the Federal Emergency Management Agency (an agency of the United States government) indicated that smoke detectors may not go off in as many as 35% of all fires. While fire alarm systems are designed to provide early warning against fire, they do not guarantee warning or protection against fire. A fire alarm system may not provide timely or adequate warning, or simply may not function, for a variety of reasons:

**Smoke detectors** may not sense fire where smoke cannot reach the detectors such as in chimneys, in or behind walls, on roofs, or on the other side of closed doors. Smoke detectors also may not sense a fire on another level or floor of a building. A second-floor detector, for example, may not sense a first-floor or basement fire.

**Particles of combustion or "smoke"** from a developing fire may not reach the sensing chambers of smoke detectors because:

- Barriers such as closed or partially closed doors, walls, chimneys, even wet or humid areas may inhibit particle or smoke flow.
- Smoke particles may become "cold," stratify, and not reach the ceiling or upper walls where detectors are located.
- Smoke particles may be blown away from detectors by air outlets, such as air conditioning vents.
- Smoke particles may be drawn into air returns before reaching the detector.

The amount of "smoke" present may be insufficient to alarm smoke detectors. Smoke detectors are designed to alarm at various levels of smoke density. If such density levels are not created by a developing fire at the location of detectors, the detectors will not go into alarm.

Smoke detectors, even when working properly, have sensing limitations. Detectors that have photoelectronic sensing chambers tend to detect smoldering fires better than flaming fires, which have little visible smoke. Detectors that have ionizing-type sensing chambers tend to detect fast-flaming fires better than smoldering fires. Because fires develop in different ways and are often unpredictable in their growth, neither type of detector is necessarily best and a given type of detector may not provide adequate warning of a fire.

Smoke detectors cannot be expected to provide adequate warning of fires caused by arson, children playing with matches (especially in bedrooms), smoking in bed, and violent explosions (caused by escaping gas, improper storage of flammable materials, etc.).

**Heat detectors** do not sense particles of combustion and alarm only when heat on their sensors increases at a predetermined rate or reaches a predetermined level. Rate-of-rise heat detectors may be subject to reduced sensitivity over time. For this reason, the rate-of-rise feature of each detector should be tested at least once per year by a qualified fire protection specialist. Heat detectors are designed to protect property, not life.

**IMPORTANT! Smoke detectors** must be installed in the same room as the control panel and in rooms used by the system for the connection of alarm transmission wiring, communications, signaling, and/or power. If detectors are not so located, a developing fire may damage the alarm system, compromising its ability to report a fire.

**Audible warning devices such as bells, horns, strobes, speakers and displays** may not alert people if these devices are located on the other side of closed or partly open doors or are located on another floor of a building. Any warning device may fail to alert people with a disability or those who have recently consumed drugs, alcohol, or medication. Please note that:

- An emergency communication system may take priority over a fire alarm system in the event of a life safety emergency.
- Voice messaging systems must be designed to meet intelligibility requirements as defined by NFPA, local codes, and Authorities Having Jurisdiction (AHJ).
- Language and instructional requirements must be clearly disseminated on any local displays.
- Strobes can, under certain circumstances, cause seizures in people with conditions such as epilepsy.
- Studies have shown that certain people, even when they hear a fire alarm signal, do not respond to or comprehend the meaning of the signal. Audible devices, such as horns and bells, can have different tonal patterns and frequencies. It is the property owner's responsibility to conduct fire drills and other training exercises to make people aware of fire alarm signals and instruct them on the proper reaction to alarm signals.
- In rare instances, the sounding of a warning device can cause temporary or permanent hearing loss.

**A life safety system** will not operate without any electrical power. If AC power fails, the system will operate from standby batteries only for a specified time and only if the batteries have been properly maintained and replaced regularly.

**Equipment used in the system** may not be technically compatible with the control panel. It is essential to use only equipment listed for service with your control panel.

## Alarm Signaling Communications:

- **IP connections** rely on available bandwidth, which could be limited if the network is shared by multiple users or if ISP policies impose restrictions on the amount of data transmitted. Service packages must be carefully chosen to ensure that alarm signals will always have available bandwidth. Outages by the ISP for maintenance and upgrades may also inhibit alarm signals. For added protection, a backup cellular connection is recommended.
- **Cellular connections** rely on a strong signal. Signal strength can be adversely affected by the network coverage of the cellular carrier, objects and structural barriers at the installation location. Utilize a cellular carrier that has reliable network coverage where the alarm system is installed. For added protection, utilize an external antenna to boost the signal.
- **Telephone lines** needed to transmit alarm signals from a premise to a central monitoring station may be out of service or temporarily disabled. For added protection against telephone line failure, backup alarm signaling connections are recommended.

**The most common cause** of life safety system malfunction is inadequate maintenance. To keep the entire life safety system in excellent working order, ongoing maintenance is required per the manufacturer's recommendations, and UL and NFPA standards. At a minimum, the requirements of NFPA 72 shall be followed. Environments with large amounts of dust, dirt, or high air velocity require more frequent maintenance. A maintenance agreement should be arranged through the local manufacturer's representative. Maintenance should be scheduled as required by National and/or local fire codes and should be performed by authorized professional life safety system installers only. Adequate written records of all inspections should be kept.

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# Installation Precautions

*Adherence to the following will aid in problem-free installation with long-term reliability:*

**WARNING - Several different sources of power can be connected to the fire alarm control panel.** Disconnect all sources of power before servicing. Control unit and associated equipment may be damaged by removing and/or inserting cards, modules, or inter-connecting cables while the unit is energized. Do not attempt to install, service, or operate this unit until manuals are read and understood.

## **CAUTION - System Re-acceptance Test after Software**

**Changes:** To ensure proper system operation, this product must be tested in accordance with NFPA 72 after any programming operation or change in site-specific software. Re-acceptance testing is required after any change, addition or deletion of system components, or after any modification, repair or adjustment to system hardware or wiring. All components, circuits, system operations, or software functions known to be affected by a change must be 100% tested. In addition, to ensure that other operations are not inadvertently affected, at least 10% of initiating devices that are not directly affected by the change, up to a maximum of 50 devices, must also be tested and proper system operation verified.

**This system** meets NFPA requirements for operation at 0-49° C/ 32-120° F and at a relative humidity 93% ± 2% RH (non-condensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15-27° C/60-80° F.

**Verify that wire sizes are adequate** for all initiating and indicating device loops. Most devices cannot tolerate more than a 10% I.R. drop from the specified device voltage.

**Like all solid state electronic devices**, this system may operate erratically or can be damaged when subjected to lightning induced transients. Although no system is completely immune from lightning transients and interference, proper grounding will reduce susceptibility. Overhead or outside aerial wiring is not recommended, due to an increased susceptibility to nearby lightning strikes. Consult with the Technical Services Department if any problems are anticipated or encountered.

**Disconnect AC power and batteries** prior to removing or inserting circuit boards. Failure to do so can damage circuits.

**Remove all electronic assemblies** prior to any drilling, filing, reaming, or punching of the enclosure. When possible, make all cable entries from the sides or rear. Before making modifications, verify that they will not interfere with battery, transformer, or printed circuit board location.

**Do not tighten screw terminals** more than 9 in-lbs. Over-tightening may damage threads, resulting in reduced terminal contact pressure and difficulty with screw terminal removal.

**This system contains static-sensitive components.** Always ground yourself with a proper wrist strap before handling any circuits so that static charges are removed from the body. Use static suppressive packaging to protect electronic assemblies removed from the unit.

**Units with a touchscreen display** should be cleaned with a dry, clean, lint free/microfiber cloth. If additional cleaning is required, apply a small amount of Isopropyl alcohol to the cloth and wipe clean. Do not use detergents, solvents, or water for cleaning. Do not spray liquid directly onto the display.

**Follow the instructions** in the installation, operating, and programming manuals. These instructions must be followed to avoid damage to the control panel and associated equipment. FACP operation and reliability depend upon proper installation.

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## FCC Warning

**WARNING:** This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause interference to radio communications. It has been tested and found to comply with the limits for Class A computing devices pursuant to Subpart B of Part 15 of FCC Rules, which is designed to provide reasonable protection against such interference when devices are operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user will be required to correct the interference at his or her own expense.

## Canadian Requirements

This digital apparatus does not exceed the Class A limits for radiation noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

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In order to supply the latest features and functionality in fire alarm and life safety technology to our customers, we make frequent upgrades to the embedded software in our products. To ensure that you are installing and programming the latest features, we strongly recommend that you download the most current version of software for each product prior to commissioning any system. Contact Technical Support with any questions about software and the appropriate version for a specific application.

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This symbol (shown left) on the product(s) and / or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, contact your local authorities or dealer and ask for the correct method of disposal.

Electrical and electronic equipment contains materials, parts and substances, which can be dangerous to the environment and harmful to human health if the waste of electrical and electronic equipment (WEEE) is not disposed of correctly.



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# Section 1 Product Overview

## 1.1 Operation

The NFN-GW-PC-HNMF, NFN-GW-PC-HNSF, NFN-GW-PC-HNW, and NFN-GW-PC-HNW-2 serve as bridges between an ONYXWorks® Workstation or ONYX FirstVision® and the connected high-speed NFN network.

The NFN-GW-PC-HNMF, NFN-GW-PC-HNSF, NFN-GW-PC-HNW, and NFN-GW-PC-HNW-2 are hereinafter referred to as the “High-speed PC NFN Gateway”.

## 1.2 Functionality

The NFN-GW-PC-HNMF, NFN-GW-PC-HNSF, NFN-GW-PC-HNW, and NFN-GW-PC-HNW-2 translates the protocols of supported Fire Alarm Control Panels (FACPs) to protocols used by an ONYXWorks Workstation or ONYX FirstVision.

## 1.3 Recommended Cybersecurity Practices

Highly recommended cybersecurity practices for the High-speed PC NFN Gateway are specified in the *Cybersecurity Manual* (LS10217-000NF-E).



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**CAUTION: CYBERSECURITY RISK**

FAILURE TO COMPLY WITH THE RECOMMENDED SECURITY PRACTICES MAY PLACE YOUR SYSTEM AT RISK.

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## 1.4 Required Software

Chrome™ is required for use with the High-speed PC NFN Gateway.

## 1.5 Environmental Requirements

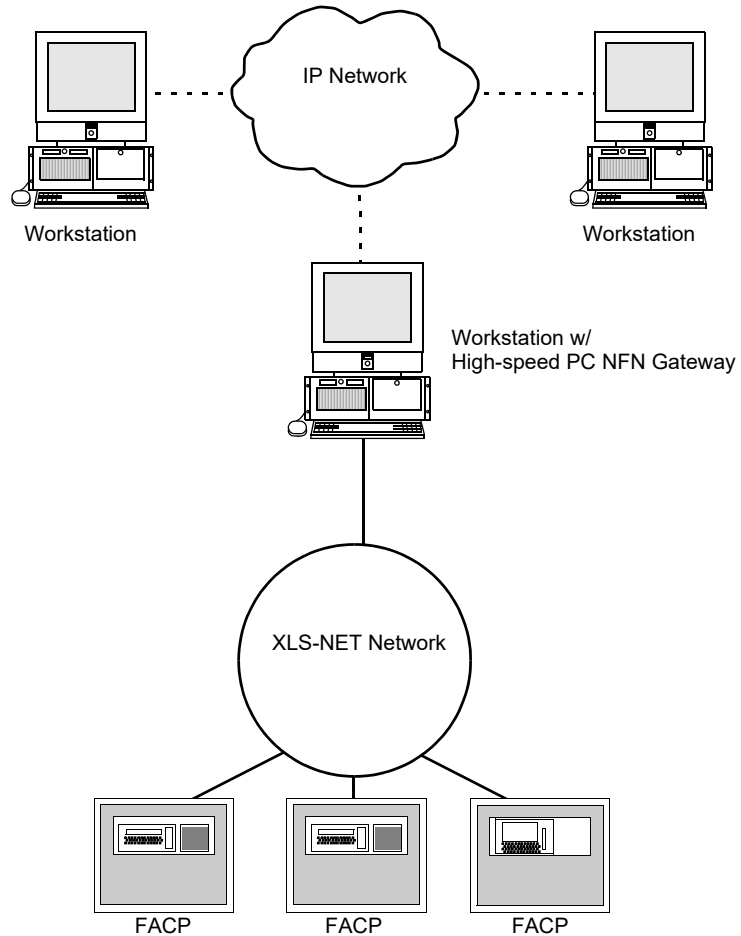
These products meet the following requirements for operation:

- Temperature - 0°C to 49°C (32°F - 120°F)
- Relative Humidity - 93 ±2% non-condensing at 32 ±2°C (90 ±3°F)

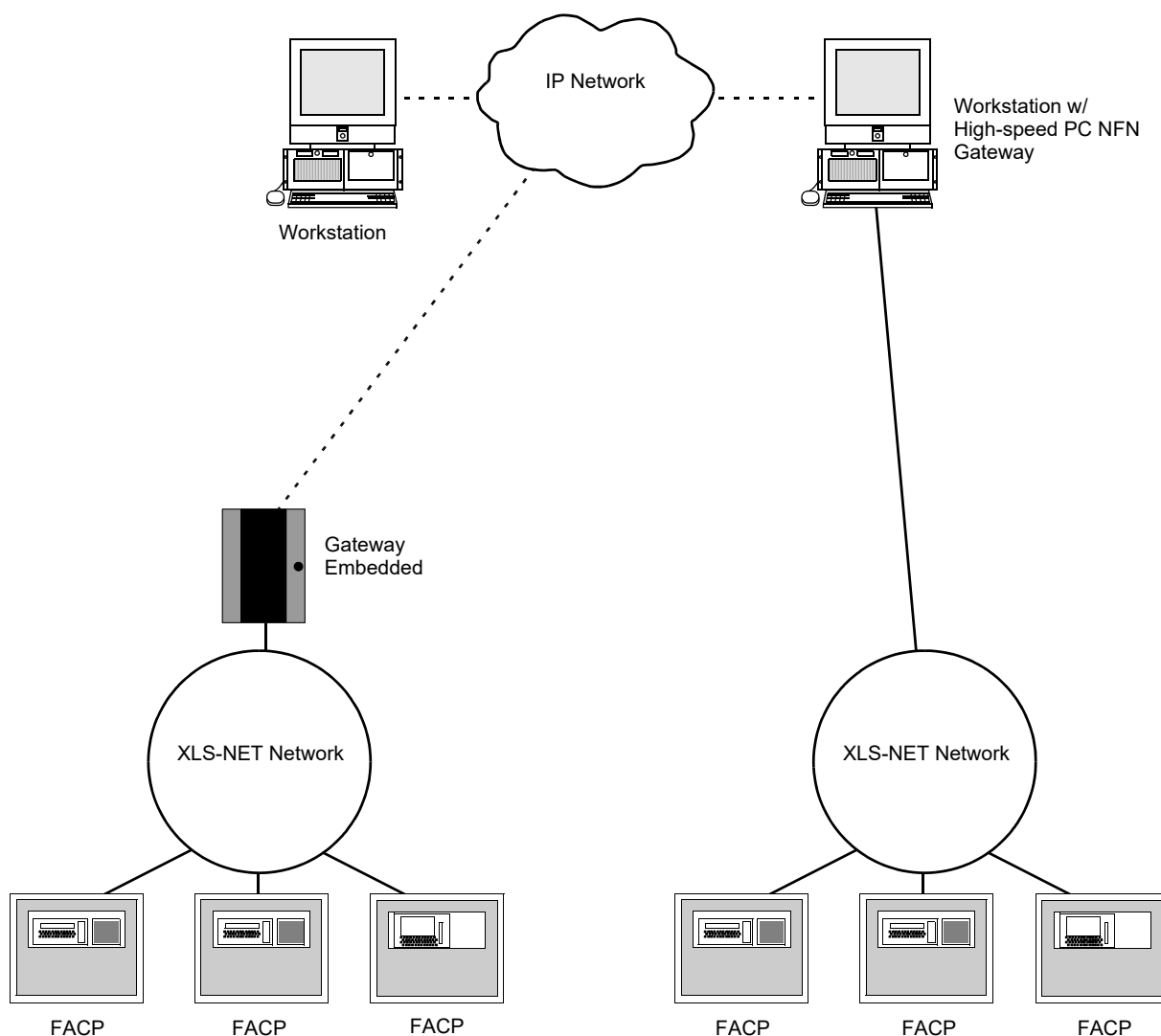
However, it is recommended that this product be installed in an environment with a normal room temperature of 15-27° C (60-80° F).

## 1.6 System Architecture

An ONYXWorks system must have at least one workstation. A workstation can monitor or control a node and its points on the XLS-NET network through the gateway. Refer to [Figures 1.1](#) and [1.2](#) for network diagrams.



**Figure 1.1 ONYXWorks System Example 1 - One XLS-NET Network**



**Figure 1.2 ONYXWorks System Example 2 - Multiple XLS-NET Networks**

## 1.7 IP Requirements

### 1.7.1 IP Port Settings

The following IP ports must be available to the High-speed PC NFN Gateway:

| Port | Type | Direction | Purpose                                           |
|------|------|-----------|---------------------------------------------------|
| 2017 | TCP  | In        | Connection from Workstation (Events and Commands) |
| 5000 | TCP  | In        | VeriFire Tools Access                             |
| 5100 | TCP  | In        | Voice Paging                                      |

## 1.7.2 Bandwidth Usage

| Worst Case Sustained Bandwidth | No. Workstations | Bandwidth                                                   |
|--------------------------------|------------------|-------------------------------------------------------------|
| Typical                        | 50               | 2520 Bytes/Sec<br>20160 bit/Sec<br>0.020 Mb/Sec (Approx.)   |
| Maximum                        | 50+ Audio        | 14670 Bytes/Sec<br>117360 bit/Sec<br>0.118 Mb/Sec (Approx.) |

## 1.7.3 IP Restrictions

The following restrictions apply:

- Must have a static IP address. DHCP is not supported.
- Web access via an HTTP proxy server is not supported.

## 1.8 Agency Listings

■ **Compliance** - This product has been investigated to, and found to be in compliance with, the following standards:

### National Fire Protection Association

- NFPA 72 National Fire Alarm and Signaling Code

### Underwriters Laboratories

- UL 864 Control Units for Fire Alarm Systems, Tenth Edition
- UL 2017 General Purpose Signaling Devices and Systems, Second Edition
- UL 2572 Mass Notification Systems, Second Edition
- UL 2610 Standard for Commercial Premises Security Alarm Units and Systems, Second Edition

### Underwriters Laboratories Canada

- CAN/ULC S527-11 Standard for Control Units for Fire Alarm Systems, Third Edition
- CAN/ULC S559-13 Standard for Equipment for Fire Signal Receiving Centres and Systems, Second Edition

■ **Installation** - This product is intended to be installed in accordance with the following:

### Local

- AHJ Authority Having Jurisdiction

### National Fire Protection Association

- NFPA 70 National Electrical Code
- NFPA 72 National Fire Alarm and Signaling Code
- NFPA 101 Life Safety Code

### Underwriters Laboratories

- UL 681 Standard for Installation and Classification of Burglar and Holdup Alarm Systems

### Underwriters Laboratories Canada

- CAN/ULC S524 Installation of Fire Alarm Systems
- CAN/ULC S561 Installation and Services for Fire Signal Receiving Centres and Systems

### Canada

- CSA C22.1 Canadian Electrical Code, Part I, Safety Standard for Electrical Installations

## 1.9 Compatible Equipment

### 1.9.1 Currently Listed Compatible Equipment

The High-speed PC NFN Gateway is compatible with the following equipment:

**Table 1.1 Compatible Equipment**

| Type                   | Equipment                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Panels:</b>    | <ul style="list-style-type: none"> <li>• N16</li> <li>• NFS-320</li> <li>• NFS2-640</li> <li>• NFS2-3030</li> </ul>                                                                    |
| <b>Network Cards:</b>  | <ul style="list-style-type: none"> <li>• HS-NCM-MF</li> <li>• HS-NCM-SF</li> <li>• HS-NCM-W-2</li> <li>• HS-NCM-WSF-2</li> <li>• HS-NCM-WMF-2</li> <li>• HS-NCM-MFSF</li> </ul>        |
| <b>Workstation:</b>    | <ul style="list-style-type: none"> <li>• ONYXWORKS-WS</li> </ul>                                                                                                                       |
| <b>Other Products:</b> | <ul style="list-style-type: none"> <li>• BACNET-GW-3</li> <li>• DVC-EM</li> <li>• FIRSTVISION</li> <li>• LEDSIGN-GW</li> <li>• NCA-2</li> <li>• NCD</li> <li>• VESDA-HLI-GW</li> </ul> |

### 1.9.2 Legacy Compatible Equipment

The following equipment is listed as compatible with the High-speed PC NFN Gateway, but is no longer available:

**Table 1.2 Legacy Compatible Equipment**

| Type                   | Equipment                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Network Cards:</b>  | <ul style="list-style-type: none"> <li>• HS-NCM-W</li> <li>• HS-NCM-WSF</li> <li>• HS-NCM-WMF</li> </ul> |
| <b>Other Products:</b> | <ul style="list-style-type: none"> <li>• CAP-GW</li> <li>• MODBUS-GW</li> <li>• NWS-3</li> </ul>         |

## Section 2 Installation

### 2.1 Required Equipment

#### 2.1.1 High-speed PC NFN Gateway Assembly:

- Printed Circuit Board - Either multi-mode fiber (P/N NFN-GW-PC-HNMF), single-mode fiber (P/N NFN-GW-PC-HNSF), or wire (P/N NFN-GW-PC-HNW or NFN-GW-PC-HNW-2) version of the board.

#### 2.1.2 Customer Supplied Equipment:

- Web Browser - Used to configure the High-speed PC NFN Gateway. Refer to 1.4, "Required Software" for recommended browsers.

### 2.2 Installing the Gateway Board

If installation of the High-speed PC NFN Gateway circuit board is required, perform the following steps:

1. Remove insulation strip from between the battery and the terminal as shown in Figure 2.1.
2. Exit all applications and shut down the computer.
3. Remove the power cord.
4. Open the computer's cover and proceed as follows:
  - For the NFN-GW-PC-HNW-2 only, locate the PCI slot at the location shown in Figure 2.2. This slot must be used.
  - For other High-speed PC NFN Gateways, locate any vacant PCI slot.
5. Prepare the workstation backplate for the gateway board as follows:
  - For the NFN-GW-PC-HNW-2 on older workstation PCs with a narrow slot in the backplate only (see Figure 2.2):
    - a. Remove the two PCI slot covers shown in Figure 2.2 and save the screws.
    - b. Cut and remove the support preventing installation of the gateway.
  - For all other High-speed PC NFN Gateways and on PCs with a slot wide enough for the NFN-GW-PC-HNW-2, remove the appropriate PCI slot cover and save the screw.
6. Insert the gateway board's edge connector into the PCI slot and then secure it with the screw.
7. Connect the supplied USB cable to an available USB header on the CPU card of the workstation PC, then to the USB port on the gateway board as shown in Figure 2.1.
8. Set the switch on the gateway board as specified in 1.6, "Setting the Ground Fault Detection Switch".
9. If installing the NFN-GW-PC-HNW-2 module, install the cover on the side of the workstation PCI slot.
10. Reinstall the computer cover and power cord, and then start the computer.

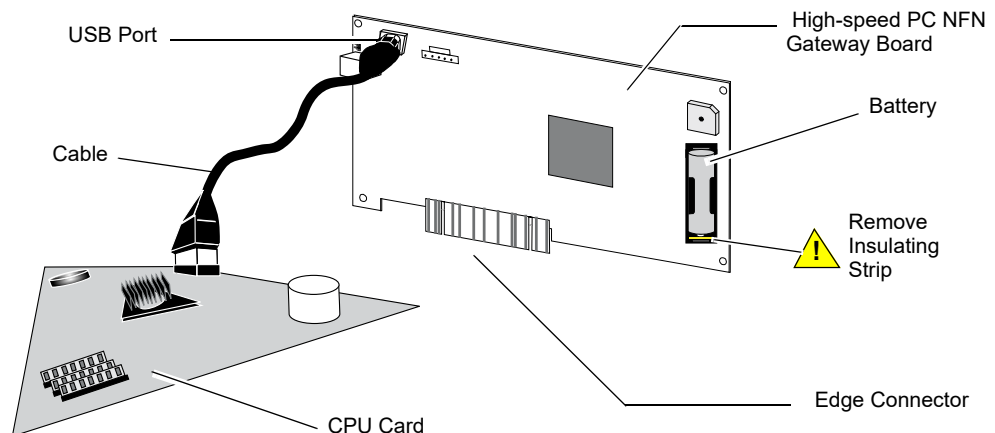


Figure 2.1 Installing the High-speed PC NFN Gateway Board

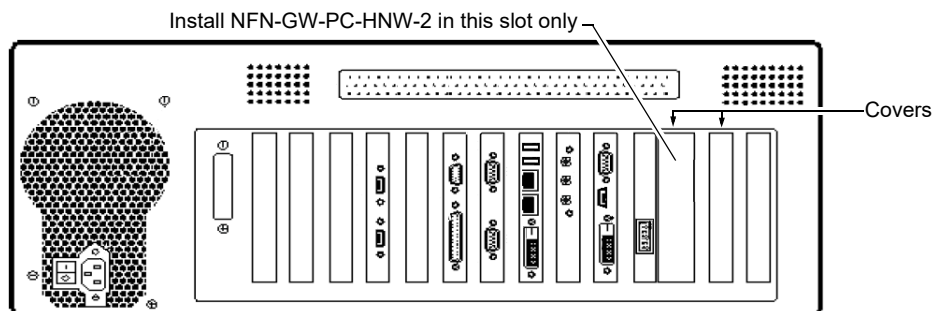


Figure 2.2 NFN-GW-PC-HNW-2 Gateway Board Mounting Location

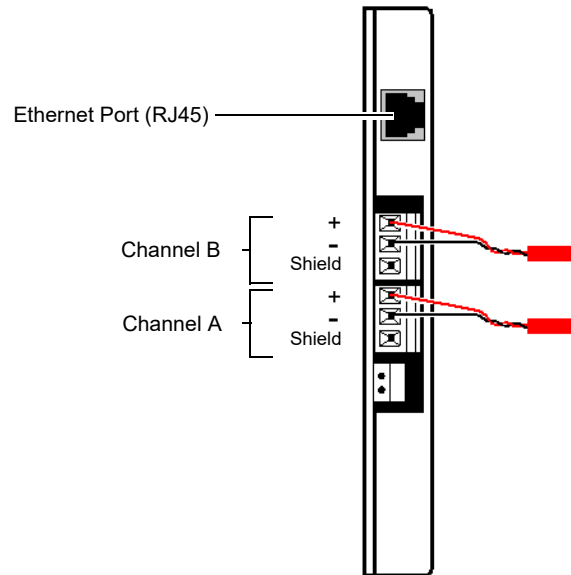
## 2.3 Connections

### 2.3.1 Connecting to the NFN Network

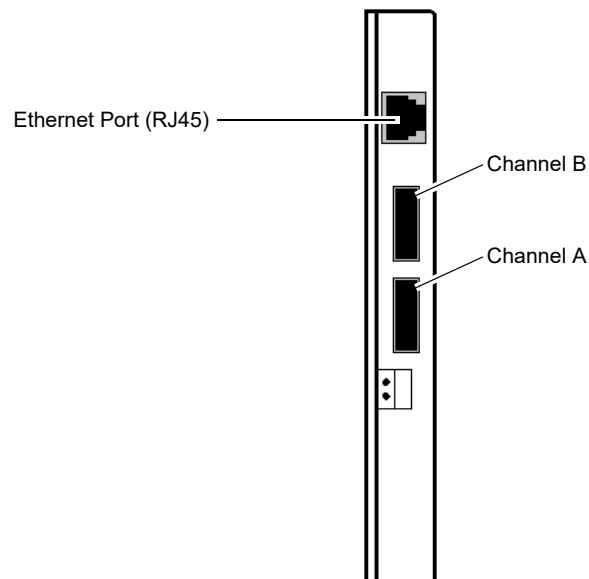
Connect the High-speed PC NFN Gateway board to the NFN network using one of the following methods:

- For the NFN-GW-PC-HNW and NFN-GW-PC-HNW-2, loop each wire pair through a ferrite bead and connect one wire pair to the Channel A pins and the other wire pair to the Channel B pins as shown in [Figure 2.3](#).
- For the NFN-GW-PC-HNMF and NFN-GW-PC-HNSF, connect the fiber optic connectors to Channels A and B as shown in [Figure 2.4](#).

For additional network connection instructions, refer to the *High-Speed Network Communications Module Product Installation Document* (P/N 54014).



**Figure 2.3 NFN-GW-PC-HNW and NFN-GW-PC-HNW-2 Connections**



**Figure 2.4 NFN-GW-PC-HNSF and NFN-GW-PC-HNMF Connections**

### 2.3.2 Connecting to UPS Supervision

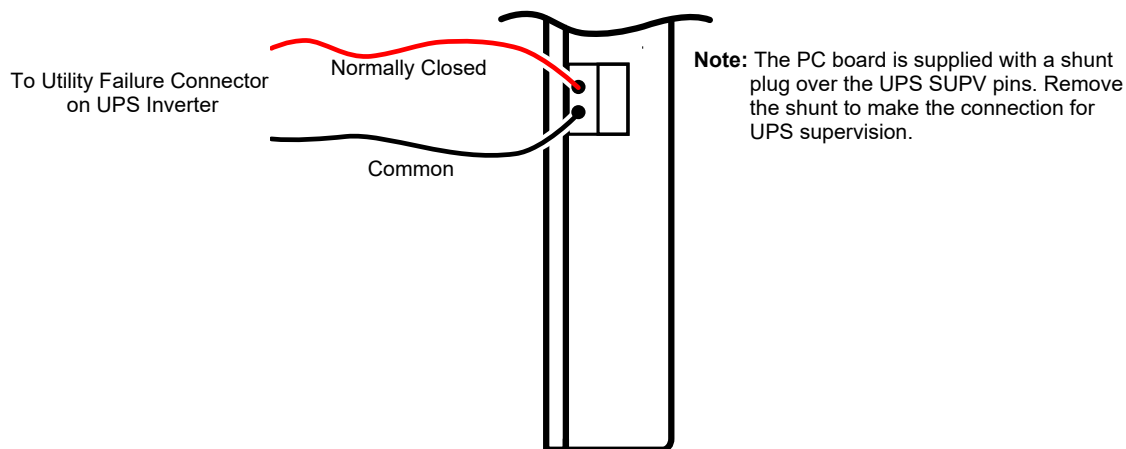


Figure 2.5 UPS Supervision Connection

## 2.4 Connection Specifications

Table 2.1 Connection Specifications

| Type                                                                                                                                                                                                                                 | Circuit Class | Specifications                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------|
| UPS SUPV                                                                                                                                                                                                                             | 2             | Connect to the Utility Failure connector on the UPS Inverter. |
| USB                                                                                                                                                                                                                                  | 2             | Must use USB cable shipped with the PC.                       |
| Wire                                                                                                                                                                                                                                 | 2             | Refer to the <i>NOTI•FIRE•NET Manual</i> (P/N 51584).         |
| Fiber                                                                                                                                                                                                                                | 2             |                                                               |
| <b>Notes:</b> <ul style="list-style-type: none"><li>• Wire length resistance cannot exceed 15 ohms.</li><li>• Zero ohms to ground causes a ground fault.</li><li>• Wiring methods used shall be in accordance with UL 681.</li></ul> |               |                                                               |

## 2.5 Setting the Ground Fault Detection Switch

Set the ground fault detection EF switch (see [Figure 2.6](#) or [2.7](#) as applicable) to **ENABLE** (required for UL 864 and CAN/ULC S559 compliance). Ground fault monitoring is performed by the FACP associated with the NFN-GW-PC-HNW/ NFN-GW-PC-HNW-2.

Correct configuration depends on the network design. For an explanation of design concepts, refer to the *NOTI•FIRE•NET Manual* (P/N 51584). For additional information concerning switch settings and network connections, refer to the *High-Speed Network Communications Module Product Installation Document* (P/N 54014).

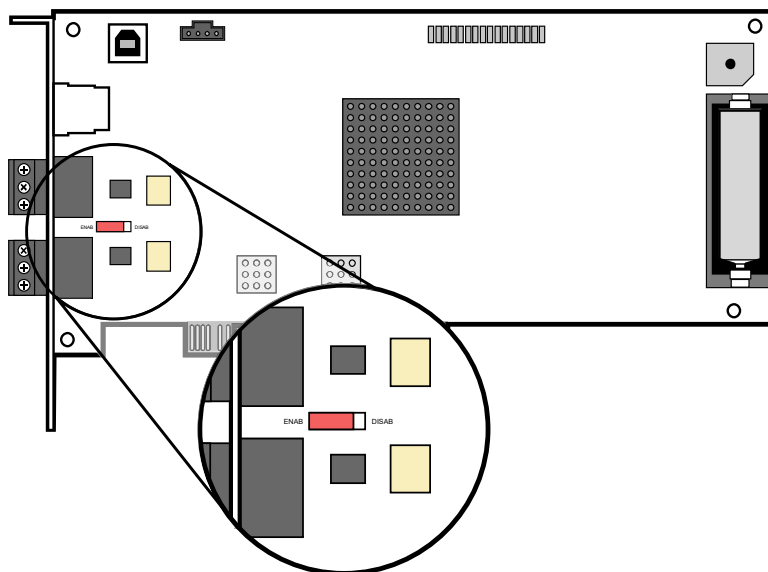


Figure 2.6 NFN-GW-PC-HNW Ground Fault Switch Setting

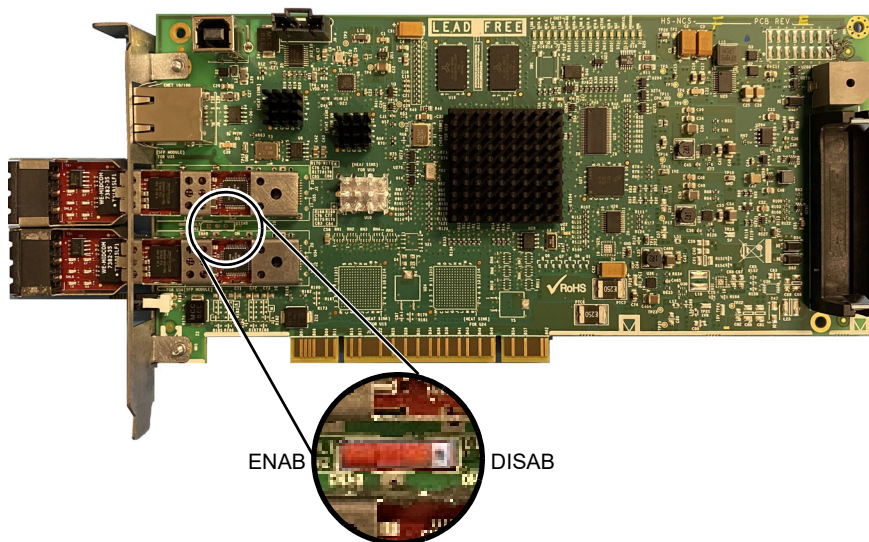


Figure 2.7 NFN-GW-PC-HNW-2 Ground Fault Switch Setting

## 2.6 System Power

### 2.6.1 Primary Power

The High-speed PC NFN Gateways are powered via the PCI slot. No external power is required.

### 2.6.2 Gateway Board Battery

The gateway board battery employed is the Honeywell P/N 39001 lithium battery. This part is not user serviceable and is provided as information only.

## 2.7 Testing and Maintenance

Testing and maintenance should be performed according to the *Testing and Maintenance* section of NFPA-72 and CAN/ULC S536.

## Section 3 Configuration

### 3.1 Configuration Application Activation and Login

1. Double-click the  icon in the Windows Notification Area.
2. When the login dialog box displays, enter the password and then click **Login**. If a password has not been set, then you will be prompted to create the password. For details regarding the password, refer to **Tools > Set Device Password** in 3.3, "Main Menus".

### 3.2 Basic Configuration Tool Layout

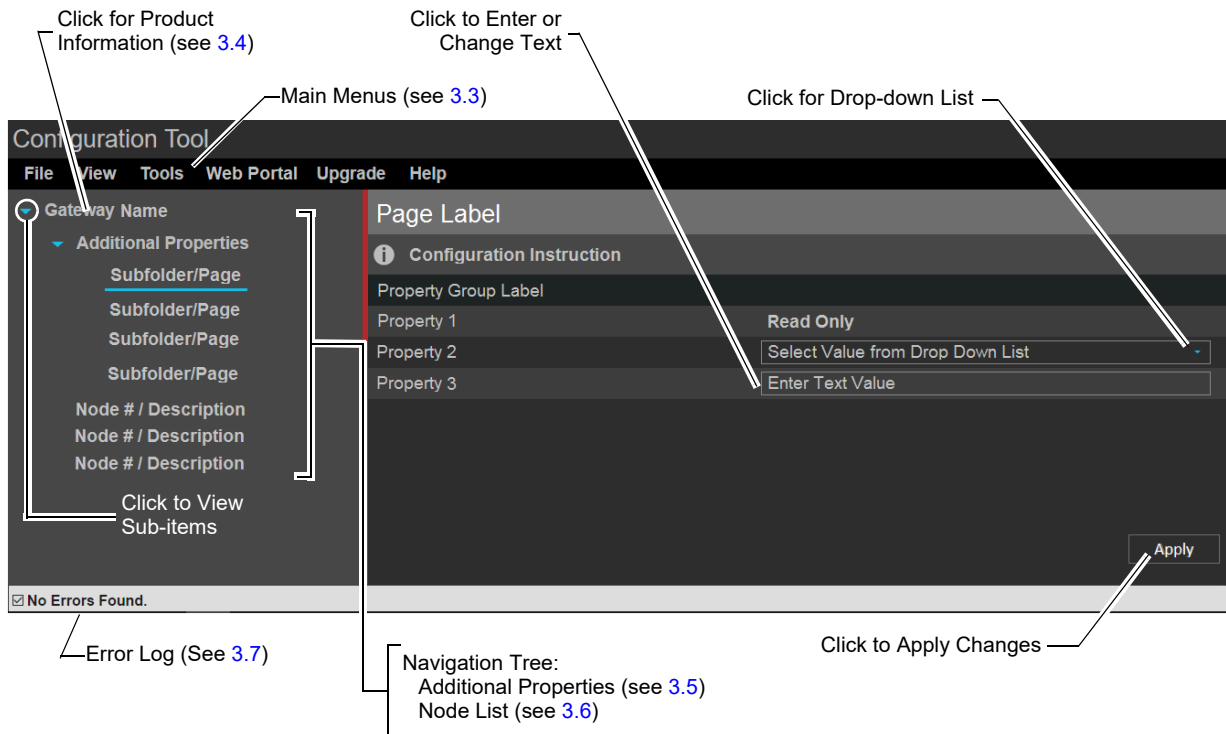


Figure 3.1 Basic Configuration Tool Layout

### 3.3 Main Menus

The following table describes the options available in the configuration tool main menus (see [Figure 3.1](#)).

**Table 3.1 Main Menus**

| Menu         | Sub-Menu             | Description                                                                                                                                                                                                                                                              |
|--------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>File</b>  | Shutdown             | Deactivates the High-speed PC NFN Gateway.                                                                                                                                                                                                                               |
| <b>View</b>  | History              | Displays a window containing a list of error messages.                                                                                                                                                                                                                   |
|              | Node Table           | Displays a window containing software version information for all monitored nodes.                                                                                                                                                                                       |
|              | Connected Clients    | Displays a window containing IP address and description information for clients connected to the High-speed PC NFN Gateway.                                                                                                                                              |
| <b>Tools</b> | Set Device Password  | Displays a dialog box allowing the user to change the current password. <ul style="list-style-type: none"> <li>• Passwords are case sensitive.</li> <li>• Alpha and numeric characters are supported.</li> <li>• Eight (8) characters, 64 characters maximum.</li> </ul> |
|              | Auto Detect Nodes    | Select to have the gateway automatically detect all connected nodes.                                                                                                                                                                                                     |
| <b>Help</b>  | Legal                | Displays legal information pertaining to the High-speed PC NFN Gateway.                                                                                                                                                                                                  |
|              | About                | Displays software version information.                                                                                                                                                                                                                                   |
|              | Advanced Diagnostics | Used for informational/diagnostic purposes.                                                                                                                                                                                                                              |

### 3.4 Product Information

The following information displays when initially opening the configuration tool. It may also be accessed by clicking the first entry in the navigation tree (see [Figure 3.1](#)).

**Table 3.2 Product Information**

| Property          | Value                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------------|
| Type              | Displays the gateway type by name.                                                                            |
| Brand             | Displays brand information.                                                                                   |
| Version           | Displays the gateway version number.                                                                          |
| Current Time/Date | Displays the current time and date information after the gateway synchronizes the clock with the SNTP server. |

### 3.5 Additional Properties

The following table describes the options available under Additional Properties in the navigation tree (see [Figure 3.1](#)). After configuring the settings, click **Apply** in the lower right corner of the window.

**Table 3.3 Additional Properties**

| Navigation Tree Label | Property                   | Value                                                                                                                                                                                                                                                                                                                            |
|-----------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NFN Settings          | <b>Gateway Settings</b>    |                                                                                                                                                                                                                                                                                                                                  |
|                       | Mode                       | Displays the mode in which the High-speed PC NFN Gateway is running.                                                                                                                                                                                                                                                             |
|                       | System Password            | Displays the unique system password.                                                                                                                                                                                                                                                                                             |
|                       | <b>General Information</b> |                                                                                                                                                                                                                                                                                                                                  |
|                       | Connection Port            | Displays the type of connection port used (USB).                                                                                                                                                                                                                                                                                 |
|                       | Connection Type            | Describes how the gateway is connected to the XLS-NET.                                                                                                                                                                                                                                                                           |
|                       | NCM Version                | Displays the NCM version number.<br><br><b>Note:</b> NCM Version does not appear when there is no XLS-NET connection.                                                                                                                                                                                                            |
|                       | NCM Status Bits            | Displays the NCM status, which can be: Piezo, UPS Failure, Network Fail Port A, Network Fail Port B, High Speed Audio, NCM Sniffer Mode Active, Local Connection Limit Exceeded, or None.<br><br><b>Note:</b> NCM Status Bits does not appear if when there is no XLS-NET connection.                                            |
|                       | Fire Network Time Policy   | Displays one of the following depending on the type of time synchronization used:<br><ul style="list-style-type: none"> <li>• <b>Send time:</b> The High-speed PC NFN Gateway sets the time on the XLS-NET network.</li> <li>• <b>Unsynced:</b> The gateway and XLS-NET network are not synchronized with each other.</li> </ul> |
|                       | <b>Node Settings</b>       |                                                                                                                                                                                                                                                                                                                                  |
|                       | Node                       | Enter the XLS-NET node number of the gateway.<br>(Default is 240)                                                                                                                                                                                                                                                                |
|                       | Panel Label                | Enter panel label.                                                                                                                                                                                                                                                                                                               |
|                       | Mass Notification Priority | Displays the priority level configured in the workstation configuration tool ( <b>System &gt; System Options</b> ). Workstation must be running in PPCU mode for this setting to be configured.                                                                                                                                  |
|                       | <b>Network Settings</b>    |                                                                                                                                                                                                                                                                                                                                  |
|                       | Channel A Threshold        | <ul style="list-style-type: none"> <li>• Select <b>High</b> for a high-noise XLS-NET network.</li> <li>• Set to <b>Low</b> for a low-noise XLS-NET network.</li> </ul>                                                                                                                                                           |
|                       | Channel B Threshold        | <ul style="list-style-type: none"> <li>• Select <b>High</b> for a high-noise XLS-NET network.</li> <li>• Set to <b>Low</b> for a low-noise XLS-NET network.</li> </ul>                                                                                                                                                           |
|                       | Class X                    | <ul style="list-style-type: none"> <li>• Select <b>Yes</b> for a Class X SLC (Signaling Line Circuit) configured XLS-NET network.</li> <li>• Select <b>No</b> for a Class B SLC configured XLS-NET network (default).</li> </ul>                                                                                                 |
|                       | Send Time to Panels        | <ul style="list-style-type: none"> <li>• Select <b>Yes</b> to make the High-speed PC NFN Gateway send messages to each panel on the XLS-NET network to synchronize the panel time to that of the gateway.</li> <li>• Selecting <b>No</b> prevents time from being sent to panels.</li> </ul>                                     |

### 3.6 Node List

The node list is located in the navigation tree area of the configuration tool screen (see [Figure 3.1](#)). Click the desired node label to view information about that node. The information displayed is dependent on the node type. Labels for off-line nodes display in red text.

## 3.7 Error Log

The error log displays specific information when the High-speed PC NFN Gateway detects a connection problem. The following table defines the meaning of the label text.

**Table 3.4 Error Log Label Definitions**

| Label                                                       | Description                                                                                                                                                                                             |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>No Errors Found</b>                                      | The gateway is not reporting any connection errors.                                                                                                                                                     |
| <b># Errors Found.</b><br><b>Click here to view errors.</b> | The gateway is reporting a connection error. The number of errors is indicated in the label. Clicking the error label opens the Error Log that lists the date, time, and a description of the error(s). |

When the error is corrected, the entry is removed from the log and the label at the bottom of the screen returns to its “No Errors Found” status. Information about the error is also recorded in the gateway history log (**View > History**).

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