

NION-232B

ONYXWorks® Network Input/Output Node



Network Systems

General

The NION-232B is an interface between the ONYXWorks™ Echelon® Gateway, legacy NOTIFIER® panels, competitive fire panels, and CCTV systems. Using protocol translation modules (EP-OW personality modules), the NION-232B facilitates transparent communications between the ONYXWorks workstation and the control panels on the Echelon Gateway network all based on LonWorks™ technologies.

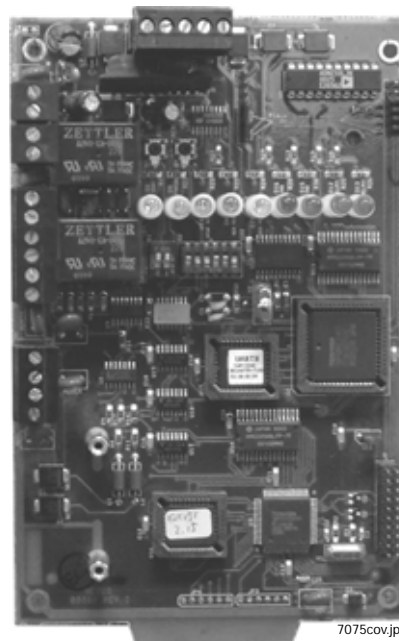
The NION-232B interprets standard network messages and sends corresponding messages to the control panel, using a RS-232 interface, in its native protocol. Similarly, the NION-232B interprets native protocol messages from the control panel and then sends standard network messages to the ONYXWorks workstation. This communication method allows panels of different manufacturers, technologies, and generations to operate on the same network. For a complete list of available interfaces, contact NOTIFIER.

Features

- Monitors and controls legacy NOTIFIER and competitive fire panels (contact NOTIFIER for a list of compatible competitive panels and CCTV).
- Communicates to an ONYXWorks workstation through the Echelon Gateway.
- High-speed proprietary LonWorks network that supports wire or multimode fiber media.
- RS-232 communications for monitored equipment interface.
- Field-selectable baud rate settings.
- Status, power, diagnostic, and I/O LEDs.
- Two dry-contact inputs and control relay output.
- Transient protection on all terminals.
- Standard wall-mount enclosure, or optional rack-mount enclosure with a capacity of up to four modules.
- Underwriters Laboratories Listed as a component of an 864 Proprietary Receiving System.

Specifications

- Requires an ONYXWorks Echelon Gateway (see Echelon Gateway/ONYXWorks data sheet DN-7059).
- Requires an ONYXWorks Workstation (see ONYXWorks data sheet DN-7048).
- Power requirements: 24 VDC @ 80 mA.
- Powered from the monitored equipment or any auxiliary UL-Listed power supply.
- Communicates on LonWorks-based network operating at 78.5 Kbaud over twisted-pair wire or multimode fiber. Bidirectional fiber (DFXC) 1250 Kbaud.
- Transformer-coupled network connection for wire applications.
- Network connections via standard screw terminals, EIA-232 connections via a network cable.
- Field-selectable baud rates from 600 to 9600.
- Two SPDT control output relays rated at 5A @ 30 VDC.
- Two normally open, dry contact inputs.
- Operating temperatures: 0°C to 49°C (32°F to 120°F).



- Storage temperatures: -40°C to +80°C (-40°F to +176°F).
- Mounts in NISCAB-1 enclosure: 9.0" (22.86 cm) wide x 12.0" (30.48 cm) high x 2.75" (6.985 cm) deep; or rack-mount in CHS-4L with CAB-3/-4 Series enclosure.

Standards and Codes

The NION-232B complies with the following UL Standards and NFPA 72 Fire Alarm Systems requirements:

- **UL 864** (Fire).
- **UL 1076** (Burglary).
- **UL 294** (Access Control).

Listings and Approvals

These listings and approvals apply to the modules specified in this document. 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.

- **UL Listed:** S5697; S6011
- **ULC Listed:** S5697; S6011
- **CSFM:** 7300-1525:102
- **MEA:** 292-98-E

Applications

- The NION-232B is compatible with:
- Competitive fire alarm control panels.
- Legacy NOTIFIER fire alarm panels.
- CCTV systems.

Ordering Information

NION-232B: Network Input/Output Node network protocol conversion platform. Compatible with competitor fire panels, security control panels, and legacy NOTIFIER panels. Requires one EPP-OW personality module kit (below) and a transceiver (below).

PERSONALITY MODULE KITS

EP-OW-200-FT: Personality firmware kit for the NOTIFIER AFP-200. Configures NION-232B for a free-topology network interface.

EP-OW-200-DF: Personality firmware kit for the NOTIFIER AFP-200. Configures NION-232B for a fiber-optic bidirectional transceiver (DFXC) interface.

EP-OW-2020-FT: Personality firmware kit for the NOTIFIER AM2020/AFP-1010. Configures NION-232B for a free-topology network interface.

EP-OW-2020-DF: Personality firmware kit for the NOTIFIER AM2020/AFP-1010. Configures NION-232B for a fiber-optic bidirectional transceiver (DFXC) interface.

EP-OW-2120-FT: Personality firmware kit for the Simplex® 2120. Configures NION-232B for a free-topology network interface.

EP-OW-2120-DF: Personality firmware kit for the Simplex® 2120. Configures NION-232B for a fiber-optic bidirectional transceiver (DFXC) interface.

EP-OW-9200-FT: Personality firmware kit for the Fire•Lite® Alarms MS-9200. Configures NION-232B for a free-topology network interface.

EP-OW-9200-DF: Personality firmware kit for the Fire•Lite® Alarms MS-9200. Configures NION-232B for a fiber-optic bidirectional transceiver (DFXC) interface.

EP-OW-BURLE-FT: Personality firmware kit for the Burle® LTC 8300, 8500, 8600, 8700, 8800, 8900 CCTV switcher and PTZ receiver. Configures NION-232B for a free-topology network interface.

EP-OW-BURLE-DF: Personality firmware kit for the Burle® LTC 8300, 8500, 8600, 8700, 8800, 8900 CCTV switcher and PTZ receiver. Configures NION-232B for a fiber-optic bidirectional transceiver (DFXC) interface.

EP-OW-CCPEL-FT: Personality firmware kit for the Pelco® CM-6700, 8500, 9500, 9760 CCTV switcher and PTZ receiver. Configures NION-232B for a free-topology network interface.

EP-OW-CCPEL-DF: Personality firmware kit for the Pelco® CM-6700, 8500, 9500, 9760 CCTV switcher and PTZ receiver. Configures NION-232B for a fiber-optic bidirectional transceiver (DFXC) interface.

EP-OW-INA-FT: Personality firmware kit for the NOTIFIER INA. Configures NION-232B for a free-topology network interface.

EP-OW-INA-DF: Personality firmware kit for the NOTIFIER INA. Configures NION-232B for a fiber-optic bidirectional transceiver (DFXC) interface.

EP-OW-IRC3-FT: Personality firmware kit for the EST® IRC3. Configures NION-232B for a free-topology network interface.

EP-OW-IRC3-DF: Personality firmware kit for the EST® IRC3. Configures NION-232B for a fiber-optic bidirectional transceiver (DFXC) interface.

EP-OW-VICON-FT: Personality firmware kit for the Vicon® VPS-328, VI-422 CCTV switcher and PTZ receiver. Configures NION-232B for a free-topology network interface.

EP-OW-VICON-DF: Personality firmware kit for the Vicon® VPS-328, VI-422 CCTV switcher and PTZ receiver. Configures NION-232B for a fiber-optic bidirectional transceiver (DFXC) interface.

EP-OW-XL3-FT: Personality firmware kit for the Siemens® Cerberus XL3. Configures NION-232B for a free-topology network interface.

EP-OW-XL3-DF: Personality firmware kit for the Siemens® Cerberus XL3. Configures NION-232B for a fiber-optic bidirectional transceiver (DFXC) interface.

TRANSCEIVERS

FTXC: Free-topology twisted-pair transceiver. Order with EP-OW-XXXX-FT.

FOXC: Fiber-optic star-configuration transceiver. Order with EP-OW-XXXX-FT.

DFXC: Fiber-optic bidirectional transceiver. Order with EP-OW-XXXX-DF.

NISCAB-1: 16-gauge sheet metal enclosure 9.0" (22.86 cm) wide x 12.0" (30.48 cm) high x 2.75" (6.985 cm) deep; order separately.

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