

NION-2C8M

ONYXWorks® Discrete Input/Output Node

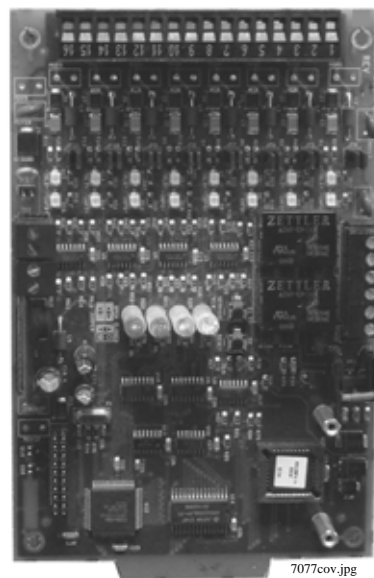


Network Systems

General

The NION-2C8M (2-Control/8-Monitor) is a general-purpose interface between the ONYXWorks™ Echelon® Gateway, addressable or conventional fire panels, security panels, and other monitored equipment with standard relay outputs. Using protocol translation modules (EP-OW personality modules), the NION-2C8M facilitates transparent communications between the ONYXWorks workstation and the control panels on the Echelon Gateway network all based on LonWorks™ technologies.

The NION-2C8M interprets standard network messages and interfaces to the control panel, using dry contacts. NION-2C8M provides eight supervised inputs for monitoring and two SPDT relay outputs for control capability. Scheduling plug-in application on the network allows for input enabling, input disabling, output activation, and output deactivation on a user-defined schedule. Similarly, the NION-2C8M interprets information 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.



Features

- Monitors and controls conventional fire, security, and process control panels.
- Communicates to an ONYXWorks workstation through the Echelon Gateway.
- Supports the high-speed proprietary LonWorks network with wire or multimode fiber media.
- Supervised inputs that support Normally Open dry contacts for monitored equipment interface.
- Unsupervised inputs that support Normally Closed dry contacts for monitored equipment interface in non-fire applications.
- Each input has alarm and trouble LEDs to indicate its current status.
- Control outputs are SPDT relays and can be configured for either Normally Open or Normally Closed operation.
- Each output has an LED to indicate relay activity.
- Network scheduling application for user-defined schedules.
- Powered by 24 VDC from monitored panels or auxiliary UL-Listed power supply.
- Status, Service, Input, and Output LEDs.
- Normally Open Inputs are supervised by end-of-line resistors.
- Standard wall-mount enclosure (NISCAB-1) or chassis (CHS-4L) with a capacity of up to four modules with CAB-3/-4 Series enclosures.
- Accepts up to eight inputs and two outputs in any combination.
- Powered from the monitored equipment or any auxiliary UL-Listed power supply.
- Power requirements: 24 VDC @ 100 mA.
- Inputs are rated at 18 VDC nominal, 1.8 mA maximum, and 2000 ohms maximum.
- Control outputs are SPDT relays rated 5 A @ 30 VDC.
- Communicates on LonWorks-based network operating at 78.5 Kbaud over twisted-pair wire or multimode fiber. Bidirectional fiber (DFXC) 1250 Kbaud.
- Network connections via standard screw terminals.
- Transformer-coupled network connection for wire applications.
- Operating temperatures: 32°F to 120°F (0°C to 49°C).
- Storage temperatures: -40°F to +176°F (-40°C to +80°C).
- Mounts in 16-gauge sheet metal enclosure 9.25" (23.495 cm) wide x 12.25" (31.115 cm) high x 2.75" (6.985 cm) deep (NISCAB-1).
- Optional multi-board chassis (CHS-4L) for use with CAB-3 Series or CAB-4 Series enclosure.
- Underwriters Laboratories Listed as a component of a UL 864 Proprietary Receiving System.

Compatibility

The NION-2C8M is compatible with:

- Fire, security, and any process control panel with dry relay contact outputs.

Specifications

- Requires an ONYXWorks Echelon Gateway (see Echelon Gateway/ONYXWorks data sheet DN-7059).
- Requires an ONYXWorks Workstation (see ONYXWorks data sheet DN-7048).

Standards and Codes

The NION-2C8M 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, S6010, S6011
- **ULC Listed:** S5697
- **MEA:** 156-97-E; 292-98-E
- **CSFM:** 7300-1525:102

Ordering Information

NION-2C8M: General-purpose Network Input/Output Node provides 8 supervised inputs for monitoring dry contacts and 2 SPDT normally open relay outputs. Requires one EP-OW personality module kit (below) and a transceiver (below).

EP-OW-2C8M-FT: Personality firmware kit for the NION-2C8M. Configures NION-2C8M for a free-topology network interface.

EP-OW-2C8M-DF: Personality firmware kit for the NION-2C8M. Configures NION-2C8M for a fiber-optic bidirectional transceiver (DFXC) interface.

FTXC: Free-topology twisted-pair transceiver. Order with EP-OW-2C8M-FT.

FOXC: Fiber-optic star-configuration transceiver. Order with EP-OW-2C8M-FT.

DFXC: Fiber-optic bidirectional transceiver. Order with EP-OW-2C8M-DF.

NISCAB-1: 16-gauge sheet metal enclosure 9.25" (23.495 cm) wide x 12.25" (31.115 cm) high x 2.75" (6.985 cm) deep.

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