

Network Interface Unit

Key Features

- **Flexibility**— unit is 19" or 23" rack mountable, 1U (1.75") high and is powered from either +24V or -48V
- **Modularity**—custom configurable for any combination of 4 I/O (input/output) cards
- **Craft Interface**—Local RS-232 port for unit set-up, such as setting IP addresses for traps and to view I/O status
- **SNMP Interface**—communicates with any standard SNMP MIB browser, v1 or v2 over Ethernet port
- **Remote Relay Trip**—use relay outputs to simulate alarms or power-down/re-set other equipment
- **Agency Compliance**—UL 1950/CSA

Description

The Network Interface Unit (NIU) is a rack mountable alarm monitoring solution that communicates using the SNMP interface over a TCP/IP Ethernet connection.

Communication to the device is accomplished via a user supplied Management Information Base (MIB) browser, which is commonly used to manage other network elements such as switches and routers.

The NIU is specifically designed to provide a low cost solution for reporting site alarms via SNMP traps, which are autonomous alarm messages directed to and recorded by the customer's MIB browser.

Application

The NIU is designed to make DC power act like other elements in the network by allowing it to be monitored by the customer's standard MIB browser. Its low-profile, power supply range of 20-60 VDC and temperature range of 0-60° C, makes it well suited for small outdoor cabinet applications. It can also be used in larger regen, POP or switch sites.

Components

- **Cabinet**—The rack mountable 1U high cabinet is available in a 19" or 23" version with 5"/6" front protection or flush mount with four (4) locations for I/O cards.
- **CPU Motherboard**—Contains local RS232 craft port (9-pin female DCE), Ethernet RJ-45 10BaseT, CPU reset push button and system watchdog circuit.
- **Binary Input Card**—8-input card provides single-ended inputs that accept either plus or minus battery (12 to 60 VDC = on, 0-2 VDC = off).
- **Relay Output Card**—4-output card provides form C contacts rated each a 0.6A at 125VAC, 0.5A at 110 VDC and 2.0A at 30 VDC.

Software Features

- **Local Security**—Add user passwords and IDs for multiple local users (up to nine levels of command access)
- **Remote Security**—Add multiple IP host address, which permit (limit) host systems from accessing unit
- **Channel Names**—Each I/O point can be programmed with a 20-character name that is transmitted with each trap



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Software Features (continued)

- **Relay Control**—Activate/Deactivate relay
- **Ethernet Control**—Enable/Disable access via the Ethernet port
- **Traps**—
 - Trap Control: Enable/Disable transmission of alarm traps
 - Trap Destinations: Add multiple IP addresses to be used as destination for traps
 - Trap Generation: Traps sent on any I/O change of state (On or Off)
 - Trap Format: SNMP alarm traps are selectable for either v1 or v2 format

Additional Information

For additional specifications, engineering and installation information, specify spec. number 586504400.



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