Cerberus® PRO Modular System

Network Interface Card
Model NIC-C

Architect & Engineer Specifications

☐ HNET communications

☐ XNET communications

☐ CAN network communications

☐ Supports `Class B' – (Style 4) or `Class A' — (Style 7) wiring for XNET or HNET

☐ Supervises the HNET or XNET and CAN networks

☐ Diagnostic light-emitting diodes (LEDs)

☐ Isolates short circuit faults

☐ Ground-fault detection

☐ Network repeater

☐ Downloadable firmware

☐ UL864 | CAN / ULC Listed

Product Overview

The Network Interface Card (Model NIC-C) provides HNET or XNET network communications between enclosures. In addition to the HNET or XNET communication, Model NIC-C provides CAN network communication within an enclosure or external to the enclosure. The HNET or XNET can be wired `Class B' – Style 4 or `Class A' - Style 7, but the CAN network can only be wired `Class B' - Style 4.
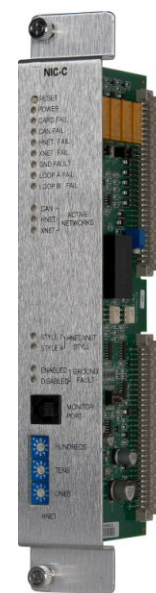
Specifications

A single Model NIC-C can provide either HNET or XNET communications. The CAN interface is available regardless of the HNET or XNET usage.

When Model NIC-C is used for HNET communications, Model NIC-C provides communication between enclosures within a single system. The maximum HNET Model NIC-C cards on a single system (single node) is 50.

Model NIC-C supervises the HNET network to insure proper operation. Model NIC-C also isolates a short-circuit fault to each individual segment of the HNET network. Model NIC-C provides an electrical repeater for each HNET pair.

When Model NIC-C is used for XNET communications, communication is provided between systems. The maximum XNET Model NIC-C cards for a single-node system is one (1), totaling 59 XNET Model NIC-C cards on a peer-to-peer, networked system. The XNET Model NIC-C card must reside in the same enclosure as the Operator Interface (OI).

Model NIC-C supervises the XNET network to ensure proper operation. Model NIC-C also isolates a short-circuit fault to each individual segment of the XNET network. Model NIC-C provides an electrical repeater for each XNET pair. MXL systems may also reside on the same XNET with Cerberus PRO Modular systems.

Model NIC-C
Network Interface Card

Specifications – (continued)

Each Cerberus PRO Modular system will report events over the XNET to the Network Command Center for display. The following commands are displayed on Model NCC-G: `Trouble' | `Acknowledge' | `Alarm-Silence | `System-Reset, which are also each initiated at Model NCC. Model NCC can also be used to perform maintenance commands on an individual Cerberus PRO Modular system on the XNET communications bus.

Each Model NIC-C Card takes one (1) card slot and mounts in a Model CC-2 or Model CC-5 Card Cage inside a Model CAB-1 | Model CAB-2 | Model CAB-3 enclosure.

Model NIC-C also comprises the CAN network, which supports Model LCM-8 | SCM-8 | FCM-6 | OCM-16 | SIM-16 CAN modules. Up to 99 CAN module addresses are available per enclosure.

The Network Interface Card has diagnostic LEDs that indicate Card Fail | CAN Fail | HNET Fail | XNET Fail | Ground Fault | `Loop A' Fail, and `Loop B' Fail. Each Model NIC-C also has LEDs to indicate Power | Style and Active Networks.

Temperature and Humidity Range

Product is UL 864 10th Edition Listed for indoor dry locations within a temperature range of 120+/-3°F (49+/-2°C) to 32+/-3°F (0+/-2°C) and a relative humidity of 93+/-2% at a temperature of 90+/-3°F (32+/-2°C).

Electrical Ratings

INPUT POWER	
24V BACK PLANE CURRENT	120mA
24V CURRENT (SCREW TERMINAL)	0
6.2V BACK PLANE CURRENT	0
24V CURRENT (STANDBY)	120mA
OUTPUT POWER	
EACH HNET / XNET AND CAN NETWORK PAIR	8V, peak-to-peak, max
	75mA, max. (during message transmission)

Details for Ordering

MODEL OR TYPE	PART NUMBER	PRODUCT
NIC-C	500-033240	Network Interface Card

SIEMENS