

# TCP/IP Digital Communicator GEMC-NL-MOD

## FEATURES:

- Listed to UL Standard 864, Ninth Edition when used with NAPCO FIREWOLF UL 864 Ninth Edition-listed panels
- Eliminates the cost of Fire Systems two dedicated phone lines
- Increases connection supervision to the central station from the once-a-day test signal to programmable test time
- Requires no change to the existing panel configuration; the IP Communicator connects directly to the primary and secondary analog panel telephone ports
- Fast alarm transmission
- Works over any type of customer-provided Ethernet network connection (LAN or WAN), DSL modem or cable modem
- Data transmits over standard contact-ID protocol but has secured encryption
- Supports dual-destination IP receiver address for high redundancy configurations: all signals are sent to a secondary address should the primary become unavailable

## DESCRIPTION:

The NAPCO NetLink™ **GEMC-NL-MOD** is a device that allows the reporting of alarms over a TCP/IP based (Intranet or Internet) network.

The GEMC-NL-MOD is housed in a separate plastic enclosure, and is connected to the Local Download receptacle for the Gemini C-Series control panels.

The GEMC-NL-MOD is supported by PCD-Windows Quickloader download software version 6.0 or greater. For FIREWOLF Fire Alarm Control panels, the Quickloader software will support downloading through the Internet or an intranet, as well as the uploading of logs and other data.

The GEMC-NL-MOD includes a small transient protection device (named the NL-ULBD) inside its enclosure. In addition, the GEMC-NL-MOD is one part of a larger system which includes a software package to allow its configuration before use (the NL-MODCONFIG) and a rack-mountable Receiver (the NL-RCV-RMPCUL) to allow the receipt of alarms, status and supervisory data.



## LISTINGS:

- UL864 9th Edition: Commercial Fire
- NFPA 72 National Fire Alarm Code
- CSFM: California State Fire Marshall
- NYCFD: NYC Fire Department
- UL1610: Central Station Burglar Alarm Units

## SPECIFICATIONS

### Electrical Ratings

The contractor shall furnish and install the NAPCO GEMC-NL-MOD Network Communicator module. The modules shall be UL listed compatible with NAPCO control panels.

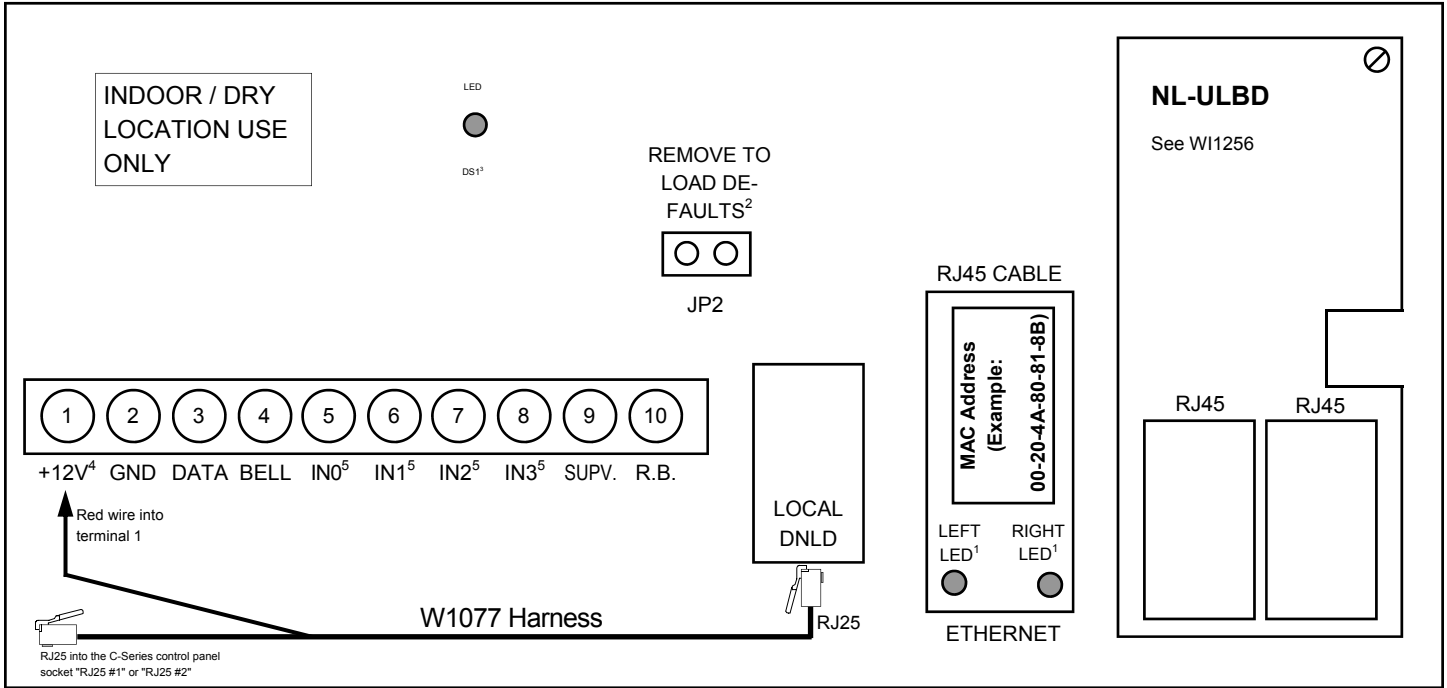
**Input Power:** Nominal 12VDC, 85mA. **Note:** 12V power must be supplied from GEMC Series motherboard **AUX PWR** terminals. Available panel 12V combined auxiliary current is reduced by 85mA.

**Output Power:** PGM-style open collector (negative trigger) with a maximum sink current of 50mA. Wire only to power-limited circuits less than 14VDC.

**Dimensions:** 1½" x 7" x 4¾" (H x W x D)

# GEMC-NL-MOD WIRING DIAGRAM

REFER TO WI1523



## GEMC-NL-MOD Wiring Diagram Notes:

1. See table below for description of right and left Ethernet Connection LED Functions.
2. Normal operation requires this shunt connector to be placed on top of JP2.
3. See pages 4, 6 and 7 for DS1 LED operation.
4. **Voltage Input:** 12VDC **Input Current:** 85mA.
5. **Rated Current:** 6.5mA **Rated Voltage:** 12VDC.

GEMC-NL-MOD TERMINAL DESCRIPTIONS	
TERMINAL NUMBER	DESCRIPTION
1	Positive 12 Volts
2	Ground
3	Data (not currently used)
4	Bell
5	User Defined Parallel Input 0. Configured by the <b>Optional Input Setup</b> screen.
6	User Defined Parallel Input 1. Configured by the <b>Optional Input Setup</b> screen.
7	User Defined Parallel Input 2. Configured by the <b>Optional Input Setup</b> screen.
8	User Defined Parallel Input 3. Configured by the <b>Optional Input Setup</b> screen.
9	Supervisory (Active Low)
10	Ringback (Active Low)

ETHERNET CONNECTION LED FUNCTIONS			
LEFT LED		RIGHT LED	
COLOR	MEANING	COLOR	MEANING
OFF	NO LINK	OFF	NO ACTIVITY
SOLID AMBER	10 MBPS	MOMENTARY AMBER	HALF DUPLEX
SOLID GREEN	100 MBPS	MOMENTARY GREEN	FULL DUPLEX