

## Network Control Modem



### DESCRIPTION

Informer Network Control Modem (NCM) is a full-duplex Bell 103 2-wire leased line modem with triple redundant error correction.

The NCM provides a fail-safe modem communication link, supplanting the traditional metallic connection that is prone to faulty operation due to weather exposure or accidental short-wiring.

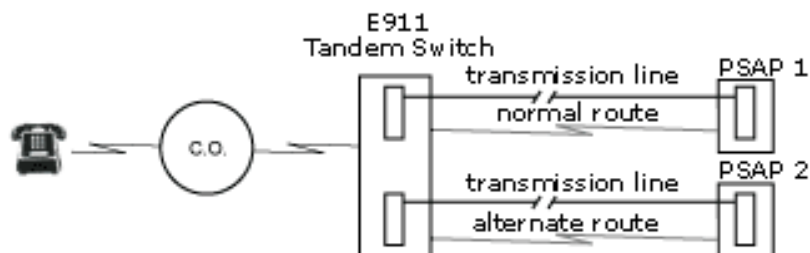
It has 8 isolated analog channels (4 switch control inputs and 4 relay control outputs) and ability to auto establish a communication link to another NCM.

The NCM is a standard WSCM 200 type board that fits into Informer's 19 Slot and 6 Slot NCM Racks and provides reliable operation with no maintenance required.

### APPLICATIONS

The Network Control Modem (NCM) was designed to monitor the 9-1-1 alternate answer circuit for line continuity and to signal the 9-1-1 tandem switch to re-direct 9-1-1 calls to an alternate PSAP. The NCM at the PSAP will send a heartbeat every six seconds to the NCM at the tandem. If the tandem does not receive the heartbeat then both NCMs will go into an alarm state producing both visual and audible alarms.

The NCM can also send a short along the alternate answer circuit to the 9-1-1 tandem switch where the scan point attached to the circuit is saturated. When this occurs the remote make busy feature is activated and the 9-1-1 calls associated with the circuit are re-routed to an alternate PSAP.



## FEATURES

- 8 isolated analog channels (4 switch control inputs and 4 relay control outputs)
- Uses 300 baud modem (Bell 103) for bullet proof connections
- Error control is via triple redundant packet transmission
- Relays are latched in the last valid position if telco connection is lost
- Relays are SPDT contacts rated at .5 amps
- Relays are configurable to have energized state either normally closed or normally open so that a loss of power can cause a change of state
- Status LEDs indicate power, carrier detect, communication link, modem mode, switch status, relay status
- NEBS level 3 compliant

## SPECIFICATIONS

- Modem protocol: Bell 103 (300 BPS)
- Error Control: Triple redundant packet
- Tx level: -10 dBm
- Rx threshold level: -30 dBm
- Power requirement: -48 Vdc, 50 MA Nominal  
(voltage range is 12V to 56V)  
\*\*External Current Limit at 1.0 Amp maximum\*\*
- Operating Environment: -20° to +70° C.
- Dimensions: Height 142 mm (5.6 in.);  
Width 17.8 mm (7.0 in.);  
Depth 150 mm (5.9 in.)
- Weight: 181.4 g (6.4 oz.)