

Model: NCTLI Telephone Line Interface Module



Features

- Interfaces with up to three (3) analog station ports (from PBX)
- Direct connection to Responder[®] communications network X-Bus
- DTMF decoding and call progress detection
- Inter-network digital audio
- Three (3) simultaneous speech channels
- Diagnostic/status LED indicators
- RJ connectors for easy installation & service
- Self-contained unit

Specifications

Power Requirements: 14V DC @ 0.5A

Network Capacity: 3 interconnect NCTLI Telephone Line Interface Modules as part of Responder[®] Network to support up to 9 analog station ports (from facility's PBX)

Weight: 5 lbs. (2.3 kg)

Size: W: 7³/₄" (19.7 cm)
H: 11³/₈" (28.9 cm)
D: 2" (5.1 cm)

Housing and Finish: Black metal enclosure w/white nomenclature

Terminations: RJ connectors and positive plug-on connectors

Capacity: 3 analog station ports

Backbox Requirements: Rauland NC2828 Terminal Cabinet

Controls: X-Bus DIP switch address, X-Bus status LED, 3 telephone line "status" LEDs, 3 telephone "off-hook" LEDs, and 1 TLI status LED

Certification: UL/C-UL 1069

Description

The NCTLI Telephone Line Interface Module is the direct interface between the Responder[®] Network and the facility's PBX. Each self-contained Telephone Line Interface Module interfaces with up to three analog station ports from the facility's PBX. Up to three Telephone Line Interface Modules can be interconnected via the X-bus as part of a Responder Network to provide up to nine analog station port interfaces. All inter-network audio communication sent to the Telephone Line Interface Module(s) is digitized to ensure superior audio intelligibility over large Responder Networks. Each NCTLI Telephone Line Interface Module port switches automatically between either an outbound or inbound port configuration depending on which system features are being used.

When a patient places a call which corresponds to a staff member's telephone coverage or when a console operator dials a staff member's telephone from the Nurse Console, the Telephone Line Interface Module port acts as an outbound port and will: draw and sense dial tone, generate DTMF digits, and perform Call Progress Detection (CPD) through the facility's PBX to route the patient's/console operator's call directly to the staff member's wired or wireless telephone. When the staff member's

telephone rings they can answer the patient's/console operator's call and converse directly with the patient over the associated Bedside Station or the console operator over the Nurse Console. If the staff member's telephone is busy, the Telephone Line Interface Module port can route the patient call to a pre-programmed backup telephone. Depending on the patient's requirements, the staff member using their telephone dial pad may set a service requirement at the patient's Bedside Station which in turn may pocket page a backup team member to respond.

When a staff member is notified of a call from one of their patients (via pocket paging, staff follow tones, etc.), through the facility's PBX the staff member can dial into the Telephone Line Interface Module port which now acts as an inbound port and will: sense ring voltage, auto answer, and accept and decode DTMF tones. Once the staff member enters their Personal Identification Number, the Responder Network will connect them to their calling patient with whom they may converse directly over the associated Bedside Station. Depending on the patient's requirements, the staff member from their telephone dial pad may set a service requirement at the patient's Bedside Station which in turn may pocket page a backup

Architects and Engineers Specifications available on disk. Specifications subject to change without notice.

Rauland-Borg Corporation

3450 West Oakton Street • Skokie, IL 60076-2958 • (847) 679-0900 • (847) 679-0625 Fax • www.rauland.com
In Canada: 4025 Sladeview Crescent, Units 4-6 • Mississauga, ON CANADA L5L 5Y1 • (905) 607-2335 • (905) 607-3554 Fax



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Description (continued)

team member to respond. The Telephone Line Interface Module also allows any staff member, from any telephone connected to the facility's PBX, to dial into the Telephone Line Interface Module port, enter any

Responder Network Control Station's (Bedside, Staff, Duty, or UJINT) room/bed number or Console number, and converse directly with that Control Station or Console.

Associated Equipment

NCPWR – Floor Power Supply
NC2828 – Terminal Cabinet

NCDATA – Data Interface Module
NCGCM – Group Control Module

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