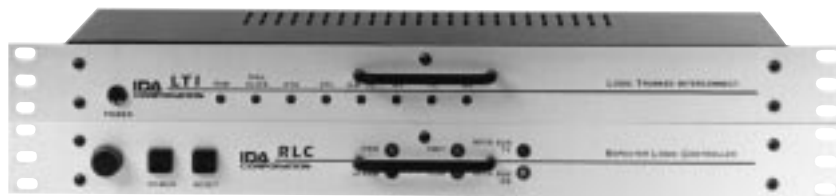


IDA

MODEL RLC TRUNKING CONTROLLER MODEL LTI TRUNKING INTERCONNECT

**AT IDA WE DON'T
PUT THE SAME PRICE
ON PERFORMANCE AS
THE OTHER GUYS.**



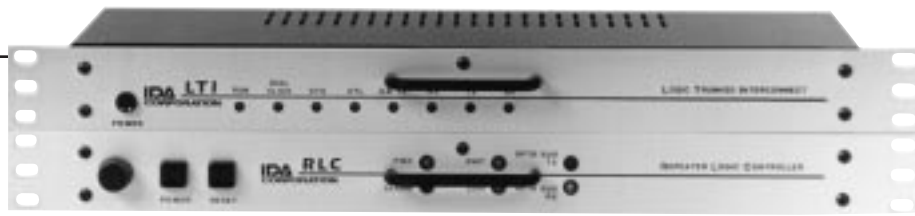
450/800/900/220 MHZ COMPATIBLE

Advanced SMR Trunking Logic and Interconnect that improves your return on investment because you invest less to begin with. That's why IDA makes the most SENSE.

IDA
CORPORATION

1345 Main Ave, Fargo, ND 58103

Call us today:
1(800)627-4432
1(701)280-1122
FAX 1(218)233-1886



RLC

Stand Alone LTR[®] Logic

Designed to provide economical LTR[®] format logic control of most any 800, 900, 450 or 220 MHz repeater, the IDA Model RLC (Repeater Logic Controller) represents a significant price breakthrough. Never before has LTR[®] been so affordable. When purchased with IDA's superior sounding interconnect, the RLC becomes an even greater price/performance value.

The microprocessor-controlled RLC was designed to function as the controller of an SMR trunking repeater.

The RLC monitors the repeater channel for a mobile transmission. If a mobile begins transmitting, the RLC decodes the subaudible data containing the mobile's ID, places the information on the repeater data bus, and begins to send the handshake to the mobile. If there is an ID validator on the system, and the mobile is invalid, the RLC will invalidate the mobile using either Quick or normal invalidation. If the ID is valid, the handshake will be completed, and the mobile will be able to use the repeater.

When the repeater is busy with a mobile transmission, the RLC sends subaudible information to all the other mobiles assigned to the repeater, telling them which repeater is to be used.

If constructing a new LTR[®] site is in your plans or just adding more channels, you owe it to yourself to check out the RLC. Call the friendly sales staff at IDA and learn how affordable "logic" can be.

RLC CAPABILITIES & FEATURES

- Quick invalidation which doesn't handshake with an invalid mobile, so that an invalid mobile cannot keep the repeater busy.
- Supports both EF Johnson RDB and Uniden RNDL bus.
- Second sync mode which acts as a backup to the primary sync unit on the repeater data bus.
- Capable of transmitting FCC system ID.
- Switchable polarity of sub-audible data and COR signals.
- Selectable hang time for loss of COR and loss of mobile data.

LTI

Logic Trunked Interconnect

The LTI (Logic Trunked Interconnect) module is designed to add high performance telephone interconnect capability to the IDA model RLC (Repeater Logic Controller).

Incorporating all of the design innovations and engineering enhancements made possible by 15 years of building LTR[®] trunking equipment, the LTI is a price performance breakthrough in a small easy-to-install package. If you are constructing a new LTR site or adding new channels, the RLC & LTI combination makes good economical sense.

LTI CAPABILITIES & FEATURES

- **Software programmable by IBM Compatible PC**
 - Remote programming via modem
 - Local programming via RS 232 port
 - Real-time activity screen
 - Editor program for updating customer files
 - Modem jack and modem overdial
 - Modem initialization string

LTI Capabilities & Features cont. next page

- Time out timer for continuous transmission.
- Switchable enable/disable of the idle repeater message.
- **Cross Busy Circuitry** is a standard feature allowing the RLC to share the same repeater with a conventional tone panel. Converts your conventional channels to LTR trunking format at the same time allowing the channels to be used by existing conventional mobiles.
- **Validation Option** This option provides system-wide validation. Validation and invalidation of customer ID codes can be done over-the-air with DTMF tones, remotely via phone line and modem, or locally.

■ **User features programmable by individual ID code**

- High or Low Priority Dispatch user
- 4 different call length timers
- 4 separate tone prompt tables are available and each can be customized
- 8 different Toll Restriction levels
- 8 different Special Phone Number tables which override the Toll Restriction
- Dispatch Validation
- Interconnect Validation
- Companding
- Full or Half Duplex
- Automatic Dial Up Dispatch Networking
- Semi-Automatic Dial Up Dispatch Networking
- Speed Dial
- Automatic Number Identification (ANI)
- 2 different # detect timers

■ **Three Different Telephone Interface Cards Available**

- 2 wire telco card with enhanced hybrid.
- 4 wire E & M telco card for Type 1 and Type 2 phone lines. DID translation for use with DID/DOD services
- Digital Signal Processing hybrid

■ **Incorporates Bell Standard Tones**

■ **CWID Station Identifier**

- Conforms to the newly proposed FCC regulations

■ **Dial Click Counter for Overdial**

- Will accept land line calls from rotary phones

■ **Dedicated RIC Feature**

- Allows the interconnect to be dedicated to a single customer eliminating need for overdial

■ **Dial Up Dispatch Networking**

- Automatic dispatch networking calls other site for networked conversations based upon ID code. DTMF microphone is not needed. Can also be used for emergency phone numbers or to allow a dispatch radio to call a preprogrammed phone number.
- DID pass through for Dial Up Dispatch Networking to save DID numbers (4 wire only)
- Semi-automatic dispatch networking
- Collection call (delinquent customers can be programmed to automatically call your office everytime they try to use the system)

■ **Dynamic Loading** The dynamic loading feature allows the system operator to prioritize system usage based on which customer and what type of call. The LTI recalculates system activity every 30 seconds and will automatically adjust any or all of the following.

- Interconnect call length timers. The 4 separate call length timers are adjusted independently
- Maximum total interconnect calls in progress
- Enable/Disable low priority dispatch users
- Enable/Disable high priority dispatch users

■ **Airtime Billing Data Collection** Each LTI has a 128K buffer. The Master LTI can store any billing records received on the TLA bus.

- Dispatch airtime data collection
- Interconnect airtime data collection
- 64K of dispatch billing data can be stored in the Master LTI
- Condensed dispatch records by hour, by day, or by billing period
- Interconnect airtime billing records that exceed the Master LTI's storage capacity are sent to other LTI's on the system. Each additional LTI has 128K of buffer.

■ **Network Compatible with Other Manufacturer's Digital Switches**

- Zetron FASTnet compatible
- HARK Mega Switch compatible

■ **Optional Voice Prompts**

- 9 different voice prompts
- Factory defaults in English or Spanish
- Prompts are field recordable via phone line allowing customizing by system operator
- Mix and match Voice and Tone prompts
- 4 separate prompt tables which are selectable by individual ID code

■ **Optional Equipment Rack Slide Rails**

■ **Optional Repeater Cables** Call factory for details.

■ **Optional Airtime Billing Software** Call factory for details.

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www.idaco.com sales@idaco.com

