

RLC LTR[®]

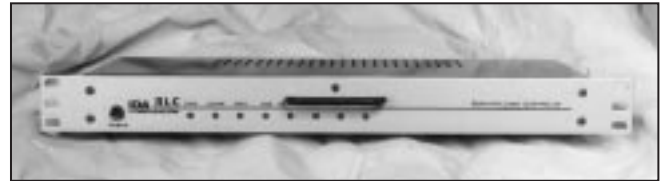
Repeater Logic Controller

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.



CROSSBUSY CIRCUITRY is a standard feature of the RLC. The crossbusy feature allows LTR format trunking on "Non-Exclusive" channels. Designed to protect against causing Co-Channel interference, the crossbusy feature of the RLC will not allow LTR mobile radios to transmit or "step on" co-channel users if activity is detected. The LTR mobiles are trunked to an open channel if available. If an open channel is not available, the trunking system is considered busy and the busy indication is sent to the LTR mobile. In addition, this feature allows LTR trunking mobiles and conventional mobiles to co-exist on the same repeater. The RLC is merely installed along with the existing conventional panel. When a conventional mobile is using the channel, the RLC will trunk the LTR mobile to another available repeater.

To provide maximum efficiency, when trunking "non-exclusive" channels it is best to limit the home channel or channels to LTR only.

OPTIONAL: System wide validation and billing data collection

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.

LTR[®] is a registered trademark of the E.F. Johnson Co.

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.*
- *Time out timer for continuous transmission.*
- *Alarm input for site monitoring.*
- *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.*
- *Switchable enable/disable of the idle repeater message.*
- *System wide time and hit counter.*
- *System wide remote validation option.*

RLC197