



Next Generation Intelligent Lon[®] EIA/ANSI 709 Router Provisional Installation Guide



Quick Installation Notes

These notes should be used in conjunction with the LonFibre router data sheet and the latest Echelon's Router and Repeater User's Guide 078-0018-01A

Power Connection and Supply

Warning - Power inputs are polarity insensitive.

Typical Power input: 24VDC @150mA, power on indicator green LED.

{Operating voltage: \pm 10-50 VDC or 12-30 VAC}

Lon Copper Port Installation

These should be connected in accordance with the appropriate requirements as set down by Echelon for the specific LonTransceiver type.

Fibre Port Installation

Fibre ports must always be connected so that a left port is connected to a right port of the next node in the ring. Segments must obey the same rules; i.e. even if only two nodes are connected, the left port of one must connect to the right port of the next. All connections must be made with multimode or singlemode Fibre optic cable. Minimum use of patch panel connections is recommended, as each patch introduces optical loss.

Fibre Port LED indicators

- 1 'Solid green' LED means the fibre port is receiving link signals from far node and the fibre network is operating redundantly.
- 2 'Solid yellow' LED means the fibre port is receiving link signals from far node and the fibre network is operating as a 'segment' or 'multidrop'.
- 3 'Fast Blinking yellow' LED means link loss i.e. no link pulses received from far end node.
- 4 'Slow Blinking yellow' LED means port failure i.e. packets received on this fibre port are corrupted, CRC packet errors or no packets received while port is linked.

Other Status LED Information

Router LED indicators

- 1 "FIB" green LED means the service Fibre side of the router is active.
- 2 "TPX" green LED means the service Copper side of the router is active.
- 3 "PKT" green LED means a LON packet has passed thru the router.

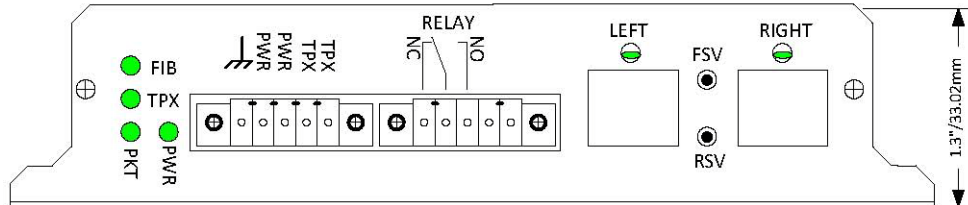
Push Button Functions

- 1 "RSV" is the Echelon RTR-10 LON Router service button.
- 2 "FSV" is the Fibre Transceiver Neuron service button.

Mechanical Relay

The on-board mechanical relay provides node status of fibre ports by activating when the fibre port link is lost or fibre port failure. The on-board mechanical relay provides SPDT operation supporting the following voltages: 240VAC@5Amps, 120VAC@10/5Amps, 28VDC@10/5Amps

Front Panel



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