CEA-709/IP-852 Router Redundant

LIP-33ECRB

Datasheet #89028519

BACnet	Modbus
✓ CEA-709	M-Bus
KNX	OPC

The L-IP Redundant connects twisted pair channels (TP/FT-10 or TP/XF-1250) with the Ethernet/IP-852 channel in LonMark Systems and allows building a redundant network infrastructure. An integrated algorithm detects and "heals" a broken cable on the TP/FT-10 channel and helps to find the point of failure immediately. In addition, the L-IP Redundant monitors the nodes on the TP/FT-10 channel and creates an alarm in case of a failure. For this reason, L-IP Redundant can only be used as a Configured Router.

Full redundancy on both the IP channel and the CEA-709 channel including device redundancy can be achieved using two devices in parallel (Twin Mode).

The integrated CEA-852 Configuration Server can manage up to 100 IP-852 devices. The configuration is done through the built-in web interface.

Alarms report a broken network cable, node failures, or high communication loads. The L-IP Redundant supports alarming according to the LonMark profile definition. Similarly, alarm conditions are provided via network variables. Alarm messages are displayed immediately via the built-in web interface and the LNS® plug-in. Alarm conditions can be forwarded via e-mail in combination with a L-INX Automation Server, an L-VIS Touch Panel, or an L-GATE Gateway, to inform about a node failure or a broken network cable.
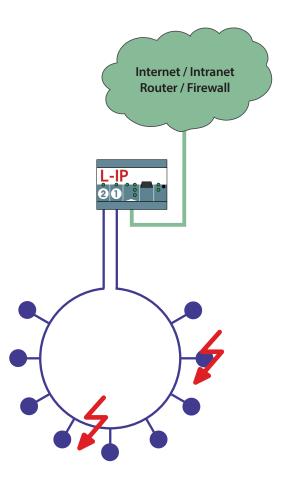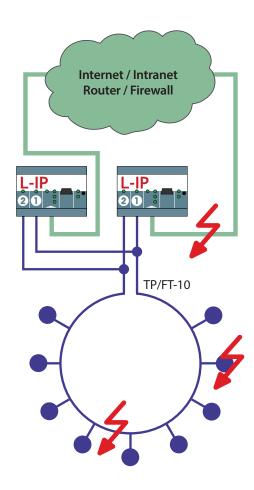
Features

- Routes packets between a TP/FT-10 channel (link power compatible) and Ethernet/IP (IP-852)
- Compliant with CEA-709, CEA-852, and ISO/IEC 14908-1 standard (LonMark System)
- Detection of broken cable (TP/FT-10 channel)
- Full redundancy with two L-IP Redundant devices in Twin Mode (IP channel and TP/FT-10 channel)
- Device redundancy by mutual monitoring of L-IP Redundant devices in Twin mode
- Communication on the TP/FT-10 channel is guaranteed in case of a single cable break
- Nodes on the TP/FT-10 channel can be monitored

- Notification via SNVTs and LonMark alarming via Node Object
- Monitors network health (bandwidth utilization, error rate, etc.)
- Supports Configured Router Mode only
- Built-in CEA-852 configuration server for up to 100 members
- Support for operation behind NAT routers and firewalls
- Easy installation, Auto-NAT, roaming, DHCP
- Remote LPA support with LPA-IP
- Integrated web server for device and IP-852 configuration
- Built-in enhanced communication test for IP-852
- Network diagnostic LEDs

Specifications

Dimensions (mm)	107 x 100 x 60 (L x W x H), DIM009
Installation	DIN rail mounting following DIN 43880, top hat rail EN 50022
Power supply	12-35 V DC / 12-24 V AC ±10 %, typ. 3 W
Operating conditions	0 °C to 50 °C, 10 – 90 % RH, non condensing, degree of protection: IP40, IP20 (terminals)
Interfaces	1 x Ethernet (100Base-T): LonMark IP-852, HTTP, FTP 2 x TP/FT-10
Tools	L-IP Redundant Configurator

Resource limits

Configuration Server	CEA-852 configuration server for up to 100 members on the IP channel

Order number	Product description
LIP-33ECRB	CEA-709/IP-852 Router for redundant mode, 2 x TP/FT-10, 1 x Ethernet port (IP-852)
LPOW-2415B	Power supply unit with power connector 24 V DC, 15 W
LT-03	Network terminator, 1 x TP/FT-10 or TP/LPT-10 (bus or free topology), 1 x Network Access Connector RJ45
LT-33	Network terminator, 2 x TP/FT-10 or TP/LPT-10 (bus or free topology)

Functions

L-WEB, L-STUDIO

L-ROC

L-INX

L-IOB

Gateways

L-VIS, L-STAT

L-DALI

Routers, NIC

Interfaces

Accessories

Dimensions of the devices in mm and [inch]

DIM009   LIP-33ECRB

Functions

L-WEB, L-STUDIO

L-ROC

L-INX

L-IOB

Gateways

L-VIS, L-STAT

L-DALI

Routers, NIC

Interfaces

Accessories

60 [2.362]

13 [.512]

89 [3.504]

100 [3.937]

ACT 2   ACT 1   LINK   ACT   serial   Made in Austria   power   status

LOYTEC
www.loytec.com

100Base-T

12-35 VDC INPUT or
12-24 VAC, 40-70 Hz
DC
AC

107 [4.213]

112 [4.409]

SCALE 1:2
10 0   20   40   60   80   100 mm

buildings under control