LIP-ME201C, LIP-ME202C, LIP-ME204C

Datasheet #89015523





The LIP-ME201C, LIP-ME202C, and LIP-ME204C BACnet/IP Routers connect BACnet MS/TP channels to a BACnet/IP network. The BACnet routers are compliant with the standards ASHRAE 135-2012 and ISO 16484-5:2012. The routers can be configured to act as a BACnet Broadcast Management Device (BBMD). The L-IP BACnet/IP Routers also provide Foreign Device support and BACnet/SC.

BACnet

CEA-709

KNX

Modbus

M-Bus

✓ OPC

The BACnet router can act as a BACnet Time Master and as a BACnet MS/TP Slave Proxy. Extended features like the optional write protection of the BDT, a BACnet/IP Access Control List (ACL), and a simple communications test for BBMD help to locate issues on the network. The BACnet router also features remote MS/TP data packet capturing. BACnet MS/TP data packets are captured by the device and can be analyzed using Wireshark (free Protocol Analyzer, www.wireshark.org). Wireshark can either connect to the L-IP online or the capture file is loaded from the L-IPs web server and analyzed offline in Wireshark.

The entire device configuration of the BACnet router is done via the built-in web server, optionally also secured via HTTPS protocol. All system registers are available as OPC XML-DA and OPC UA data points.

The BACnet router is BTL certified as BACnet Building Controllers (B-BC).

Each L-IP BACnet/IP Router is equipped with two Ethernet ports. It can either be configured to use the internal switch to interconnect the two ports or every port is configured to work in a separate IP network.

When the Ethernet ports are configured for two separate IP networks, one port can be connected for instance to a WAN (Wide Area Network) with enabled network security (HTTPS) and BACnet/SC while the second port can be configured to be connected to an insecure network (LAN) where the standard building automation protocols like BACnet/IP are present. These devices also feature firewall functionality of course to isolate particular protocols or services between the ports. The built-in VPN function provides for simple VPN setup and secure access to remote sites. The LTE-800 interface enables wireless access to remote sites through a mobile carrier.

Using the internal switch, a daisy chained line topology of up to 20 devices can be built, which reduces costs for network installation. The IP switch also allows the setup of a redundant Ethernet installation (ring topology), which increases reliability. The redundant Ethernet topology is enabled by the Rapid Spanning Tree Protocol (RSTP), which is supported by most managed switches.

Features

- Routes packets between BACnet MS/TP and BACnet/IP, BACnet/SC
- Compliant with ANSI/ASHRAE 135-2012 and ISO 16484-5:2012 standard
- BBMD (BACnet Broadcast Management Device) •
- Foreign device support
- Slave Proxy for up to 32 MS/TP slave devices
- · Configuration via built-in web server
- Built-in OPC XML-DA and OPC UA server
- Dual Ethernet/IP interface
- · Access to network statistics via web browser
- BACnet MS/TP diagnostic LED

- BACnet MS/TP diagnostic via web interface
- MS/TP remote data packet capture (Wireshark)
- Ethernet link and activity LED
- Secure web interface via HTTPS
- 128x64 graphic display with backlight
- Local display of device information •
- Manual operation using the jog dial or VNC client
- Supports WLAN through LWLAN-800 Interface
- Supports LTE through LTE-800 Interface
- Stores user-defined project documentation •
- Supports VPN for BACnet/IP

-ROC

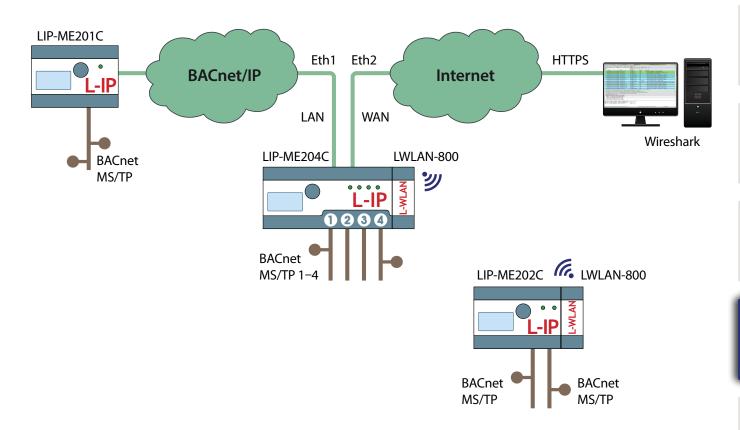
L-DALI

Routers, NIC

Interfaces

LIP-ME201C, LIP-ME202C, LIP-ME204C

Specifications					
Туре	LIP-ME201C	LIP-ME202C	LIP-ME204C		
Dimensions (mm)	107 x 100 x 75 (L x W x H), DIM046		159 x 100 x 75 (L x W x H), DIM054		
Installation	DIN rail mounting following DIN 43880, top hat rail EN 50022				
Purpose of control	Operating control				
Construction of control	Independently mounted control				
Feature of automatic action	Туре 1				
Operating conditions	0 °C to 50 °C, 10-90 % RH, noncondensing, degree of protection: IP40, IP20 (terminals), pollution degree 2				
Power supply	24 V DC/ V AC SELV ±10 %, typ. 2.5 W				
Rated Impulse Voltage	330 V				
Interfaces	2 x Ethernet (100Base-T): BACnet/IP, BACnet/SC, OPC XML-DA (server), OPC UA (server), HTTP, FTP, SSH, HTTPS, Firewall, NTP, VNC, SNMP 2 x USB-A: WLAN (needs LWLAN-800), LTE (needs LTE-800)				
	1 x BACnet MS/TP	2 x BACnet MS/TP	4 x BACnet MS/TP		
Tools	Configuration via web browser or locally via graphic display and jog dial				
UL Certification	c Al °us	c AN us	c Wus LISTED		



BACnet/IP Router

LIP-ME201C, LIP-ME202C, LIP-ME204C

Order number	Product description		
LIP-ME201C	BACnet/IP Router, 1 x BACnet MS/TP (RS-485), 2 x Ethernet port (BACnet/IP)		
LIP-ME202C	BACnet/IP Router, 2 x BACnet MS/TP (RS-485), 2 x Ethernet port (BACnet/IP)		
LIP-ME204C	BACnet/IP Router, 4 x BACnet MS/TP (RS-485), 2 x Ethernet port (BACnet/IP)		
LPOW-2415B	Power supply unit with power connector 24 VDC, 15 W		
LWLAN-800	Wireless LAN Interface IEEE 802.11bgn		
LT-04	Network terminator, 1 x RS-485 (bus topology, ANSI TIA/EIA-485), 1 x Network Access Connector RJ45		
LT-B4	Network terminator, 1 x RS-485 (bus topology, ANSI TIA/EIA-485) with biasing circuit (failsafe biasing)		
LTE-800	LTE Interface		

Functions

L-WEB, L-STUDIO

L-ROC

www.loytec.com

Dimensions of the devices in mm and [inch]

DIM046	LIP-1ECTC LIP-3ECTC LIP-33ECTC LIP-ME201C LIP-ME202C NIC709-1E100C NIC709-3E100C		13 [.512] 60 [2.362] 15
			409]
DIM054	LINX-154 LIP-3333ECTC LIP-ME204C		
(
		159 [6.260] 164 [6.457]	SCALE 1 : 2 10 0 20 40 60 80 100 mr

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