



NETWORK

BACNET/IP AND LON/IP ROUTER L-IP SERIES

DESCRIPTION

The **Loytec L-IP Series** of routers easily connect LON or BACnet networks to IP networks. Configuration is simple, and is accomplished through a built-in web server or serial port. The LON model supports both Smart Switch and Configured Router modes, and models are available for both FT-10 and XF-1250 physical networks. The BACnet model supports MS/TP on one side and BACnet/IP on the other.

FEATURES

- **BACnet and LON models**
- **Configuration via built-in Web server or serial port**
- **Status and activity LED**
- **100baseT connection**
- **DIN-rail mountable**



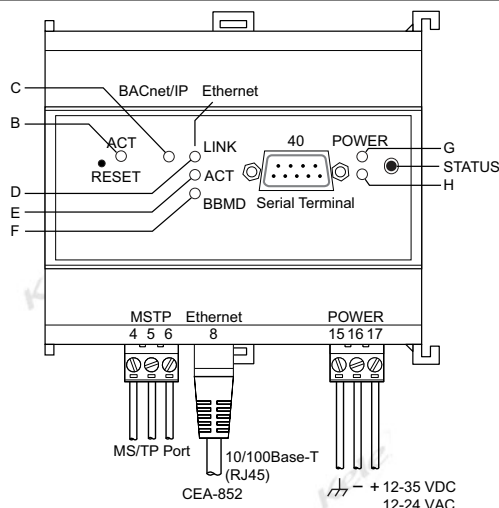
LIP-ME201



SPECIFICATIONS

Supply Voltage	12 to 35 VDC @ 125 mA, 12 to 24 VAC $\pm$ 10% @ 3 VA	LIP-3ECTB	1x TP/FT-10, 1x Ethernet (100Base-T) Lonmark IP-852, HTTP, FTP
Communication		LIP-ME201	1x BACnet MS/TP, 1x Ethernet (100Base-T) BACnet/IP, HTTP, FTP
LIP-1ECTB	Type CEA-709, IP (10/100Base-T + TP/XF-1250)	Operating Temperature	0° to 122°F (0° to 50°C)
LIP-3xxxx	Type CEA-709, IP (10/100Base-T + TP/FT-10)	Operating Humidity	10-90% RH @ 122°F (50°C) non-condensing
LIP-ME201	Type BACnet, IP (10/100Base-T + BACnet MS/TP)	Mounting	DIN rail
Channels		Dimensions	
LIP-1ECTB	1x TP/XF-1250, 1x Ethernet (100Base-T) Lonmark IP-852, HTTP, FTP	All other models	4.21"W x 3.94"H x 2.36"D (10.7 x 10.0 x 6.0 cm)
LIP-3333ECTB	4x TP/FT-10, 1x Ethernet (100Base-T) Lonmark IP-852, HTTP, FTP	LIP-3333ECTB	6.26"W x 3.94"H x 2.36"D (15.9 x 10.0 x 6.0 cm)
LIP-33ECRB/LIP-33ECTB	2x TP/FT-10, 1x Ethernet (100Base-T) Lonmark IP-852, HTTP, FTP	Weight	
		LIP-3333ECTB	0.68 lbs (0.31 Kg)
		All other models	0.49 lbs (0.22 Kg)
		Approvals	CE, FCC
		Warranty	2 years

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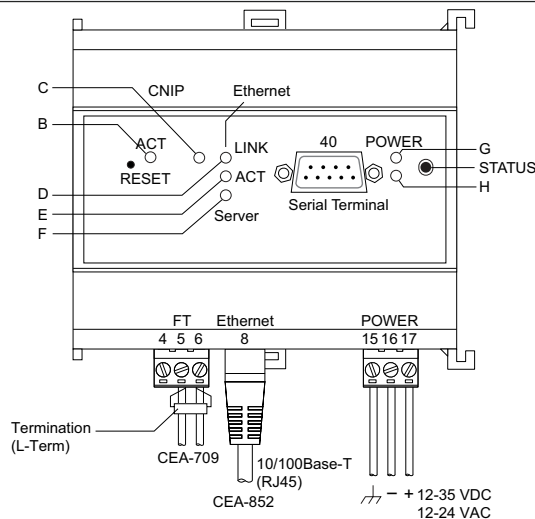
LIP-ME201

Connectors	
MS/TP	4 Input GND 5 Input + 6 Input -
Ethernet	8 10/100Base-T (RJ45)
POWER	15 Power supply input EARTH GND 16 Power supply input MINUS Can be connected to EARTH GND 17 Power supply input PLUS Do NOT be connect to EARTH GND
SERIAL	40 EIA-232 (DB9 male)
Buttons	
RESET	Reset
STATUS	Send "I AM" pin message

Status LEDs	
B Green flashing fast	Traffic on MS/TP port
Orange flashing	Sole master
Red	Communication error
C Green flashing	Traffic on BACnet IP port
D Green	Ethernet link
E Green flashing	Ethernet traffic
F Green	BBMD enabled
G Green	Power
H OFF	Normal operation

BACNET/IP AND LON/IP ROUTER

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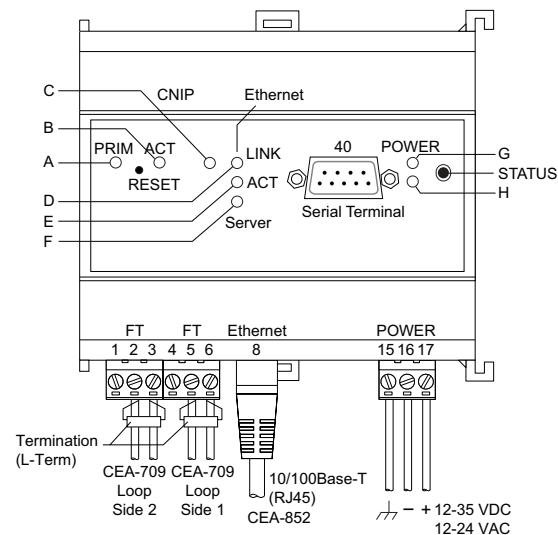


LIP-xECTB

Connectors		
CEA-709	4	Input EARTH GND port 1
	5	Input B port 1
	6	Input A port 1
Ethernet	8	10/100Base-T (RJ45)
POWER	15	Power supply input EARTH GND
	16	Power supply input MINUS
	17	Power supply input PLUS
		 Do NOT connect to EARTH GND
SERIAL	40	EIA-232 (DB9 male)

Buttons	
RESET	Reset
STATUS	Send service pin message

Status LEDs		
B	Green flashing fast Green flashing at 1 HZ Red permanent Red flashing fast	Traffic on port 1 Port not commissioned CEA-709 port damaged Traffic overload on port 1
C	Green Yellow Red Flashing at 1 Hz OFF	IP port is fully functional IP port functional but config. is not up-to-date IP port in non-functional IP port is not commissioned IP port is not active
D	Green	Ethernet link
E	Green flashing	Ethernet traffic
F	Green	BBMD enabled
G	Green	Power
H	OFF	Normal operation

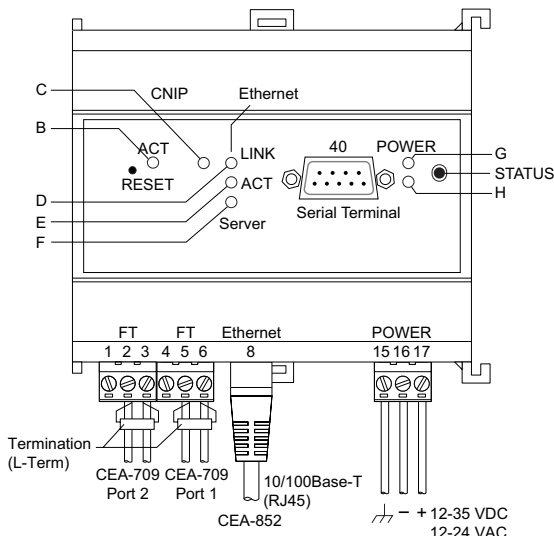


LIP-xxECRB

Connectors	
CEA-709	1 Do not connect 2 Input B loop side 2 3 Input A loop side 2
CEA-709	4 Input EARTH GND port 2 5 Input B loop side 1 6 Input A loop side 1
Ethernet	8 10/100Base-T (RJ45)
POWER	15 Power supply input EARTH GND 16 Power supply input MINUS 17 Power supply input PLUS ⚠ Do NOT connect to EARTH GND
SERIAL	40 EIA-232 (DB9 male)

Buttons	
RESET	Reset
STATUS	Send service pin message

Status LEDs		
A	Green Off Orange Red	Device is active Device is inactive (standby) Problem with twin router Device is inactive due to error
B	Green flashing fast Green flashing at 1 HZ Red permanent Red flashing fast	Traffic on CEA-709 loop Port not commissioned CEA-709 port damaged Loop open/Traffic overload
C	Green Yellow Red Flashing at 1 Hz OFF	IP port is fully functional IP port functional but config. is not up-to-date IP port in non-functional IP port is not commissioned IP port is not active
D	Green	Ethernet link
E	Green flashing	Ethernet traffic
F	Green	BBMD enabled
G	Green	Power
H	OFF	Normal operation



LIP-xxECTB

Connectors	
CEA-709	1 Input EARTH GND port 2 2 Input B port 2 3 Input A port 2
CEA-709	4 Input EARTH GND port 1 5 Input B port 1 6 Input A port 1
Ethernet	8 10/100Base-T (RJ45)
POWER	15 Power supply input EARTH GND 16 Power supply input MINUS 17 Power supply input PLUS ⚠ Do NOT connect to EARTH GND
SERIAL	40 EIA-232 (DB9 male)

Buttons	
RESET	Reset
STATUS	Send service pin message

Status LEDs		
A	Green flashing fast Green flashing at 1 Hz Red permanent Red flashing fast	Traffic on port 2 Port not commissioned CEA-709 port damaged Traffic overload on port 2
B	Green flashing fast Green flashing at 1 Hz Red permanent Red flashing fast	Traffic on port 1 Port not commissioned CEA-709 port damaged Traffic overload on port 1
C	Green Yellow Red Flashing at 1 Hz OFF	IP port is fully functional IP port functional but config. is not up-to-date IP port in non-functional IP port is not commissioned IP port is not active
D	Green	Ethernet link
E	Green flashing	Ethernet traffic
F	Green	BBMD enabled
G	Green	Power
H	OFF	Normal operation

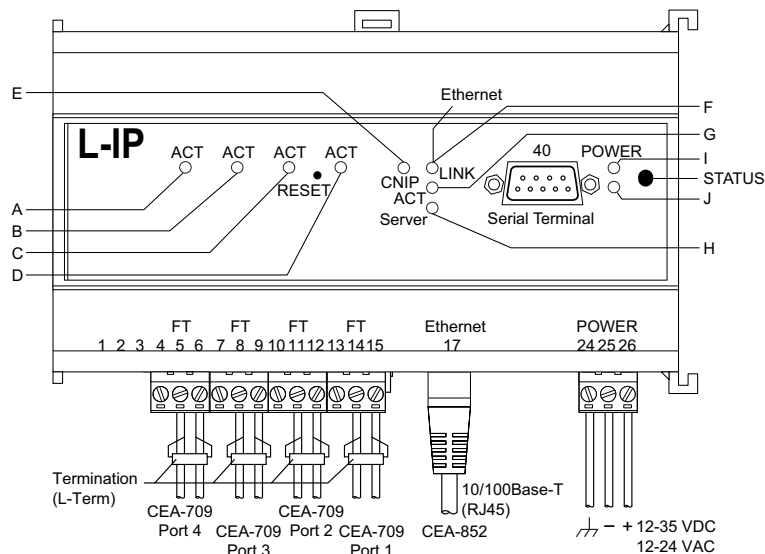


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WIRING

LIP-xxxECTB



Connectors	
CEA-709	4 Input EARTH GND port 4 5 Input B port 4 6 Input A port 4
CEA-709	7 Input EARTH GND port 3 8 Input B port 3 9 Input A port 3
CEA-709	10 Input EARTH GND port 2 11 Input B port 2 12 Input A port 2
CEA-709	13 Input EARTH GND port 1 14 Input B port 1 15 Input A port 1
Ethernet	17 10/100Base-T (RJ45)
POWER	15 Power supply input EARTH GND 16 Power supply input MINUS 17 Power supply input PLUS Do NOT connect to EARTH GND
SERIAL	40 EIA-232 (DB9 male)

Buttons	
RESET	Reset
STATUS	Send service pin message

Status LEDs		
A	Green flashing fast Green flashing at 1 Hz Red permanent Red flashing fast	Traffic on port 4 Port not commissioned CEA-709 port damaged Traffic overload on port 4
B	Green flashing fast Green flashing at 1 Hz Red permanent Red flashing fast	Traffic on port 3 Port not commissioned CEA-709 port damaged Traffic overload on port 3
C	Green flashing fast Green flashing at 1 Hz Red permanent Red flashing fast	Traffic on port 2 Port not commissioned CEA-709 port damaged Traffic overload on port 2
D	Green flashing fast Green flashing at 1 Hz Red permanent Red flashing fast	Traffic on port 1 Port not commissioned CEA-709 port damaged Traffic overload on port 1
E	Green Yellow Red Flashing at 1 Hz OFF	IP port is fully functional IP port functional but config. is not up-to-date IP port in non-functional IP port is not commissioned IP port is not active
F	Green	Ethernet link
G	Green flashing	Ethernet traffic
H	Green	BBMD enabled
I	Green	Power
J	OFF	Normal operation

ORDERING INFORMATION

MODEL
LIP-1ECTB
LIP-333ECTB
LIP-33ECRB
LIP-33ECTB
LIP-3ECTB
LIP-ME201

DESCRIPTION
L-IP Lon Router, 1 TP/XF-1250, 1 ethernet port (IP-852)
L-IP Lon Router, 4 TP/FT-10, 1 ethernet port (IP-852)
L-IP Lon Router with redundancy, 2 TP/FT-10, 1 ethernet port (IP-852)
L-IP Lon Router, 2TP/FT-10 , 1 ethernet port (IP-852)
L-IP Lon Router, 1TP/FT-10, 1 ethernet port (IP-852)
BACnet/IP Router, MS/TP to BACnet/IP