LUMISYS
BUILT FOR INTEGRATION

Data Sheet

E-LINK

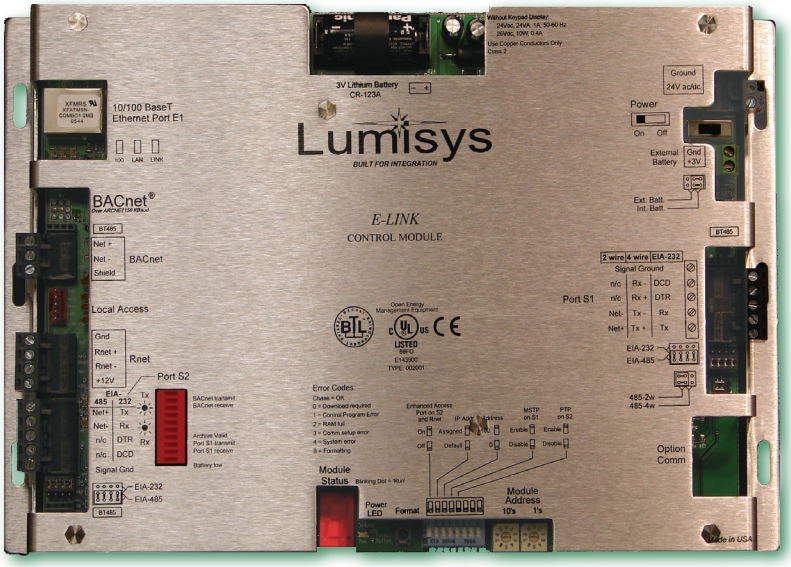
BACnet Listed Protocol Converter

Overview

BACnet Listed Protocol Coverter

The E-LINK Control Module is a full-featured controller, router and translator that is designed to integrate Lumisys control systems into a BACnet or Modbus Building Automation System. The E-LINK's powerful high-speed processors can handle the most demanding BACnet and Modbus applications. Whether your applications require BACnet over IP, Ethernet, ARCNET 156K, MS/TP, PTP, or whether they require Modbus RTU, ASCII or TCP/IP Client, it's diverse set of ports enable you to control and monitor the Lumisys network no matter which of these protocols you employ.

E-LINK can also translate BACnet into DALI protocol for processing on a DALI network.



The Lumisys E-LINK features a rugged aluminum cover that protects the electronics from damage.

Green Impact

Existing Buildings

System	Category	Prereq.	LEED Credit
EB	SS	-	7
EB	EA	1	1,6
EB	IEQ	-	6,8
EB	IUOM	-	1

New Construction

System	Category	Prereq.	LEED Credit
NC	SS	-	8
NC	EA	1	1
NC	MR	-	5
NC	EQ	-	6,8
NC	ID	-	1

Ordering Information

Catalog #	Description
E-LINK	Lumisys E-LINK - BACnet or Modbus Protocol Conversion Module (Factory Programmed)

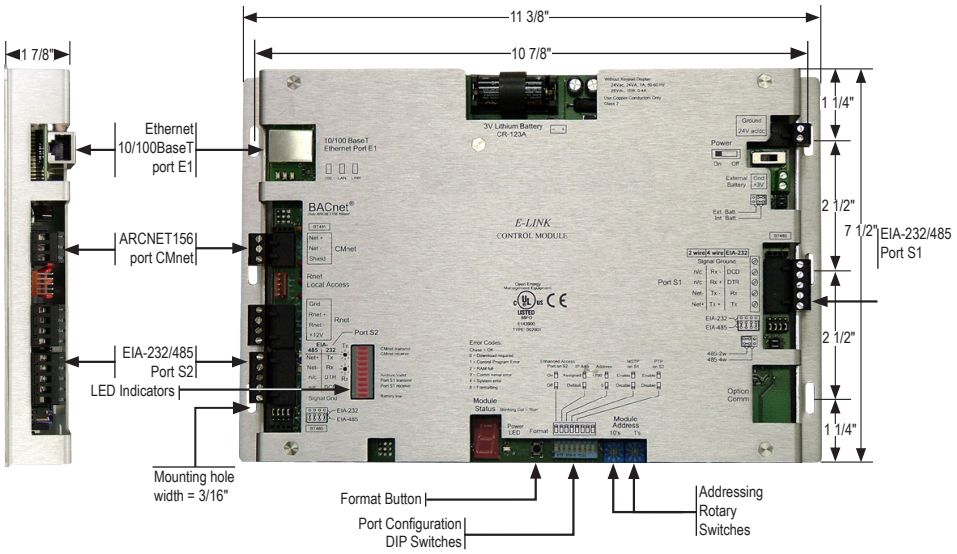
Specifications:

Electrical

BACnet support:	Conforms to the BACnet Building Controller (B-BC) Standard Device as defined in BACnet 135-2001 Annex L (E-LINK is BACnet Listed)
Communication	The following ports are available on the E-LINK modules: • 10/100Base-T Ethernet RJ-45 port for BACnet/IP network, BACnet over Ethernet or DALI • CMnet port for ARCNET 156 • EIA-232/EIA-485 configurable port for MS/TP or Modbus (EIA-485 is 2 or 4 wire selectable). • EIA-232/EIA-485 port for Lumisys, TRIATEK legacy or PTP. See “Typical Wiring” for port assignments.
Microprocessor	32-bit Motorola Power PC microprocessor with cache memory, Fast Ethernet controller, high performance 32-bit communication co-processor, ARCNET communication co-processor and I/O expansion CAN co-processor
Memory	16 MByte non-volatile battery-backed SDRAM, 8 MByte Flash memory, 32-bit memory bus. (Battery shelf life is 10 years with 720 hours of continuous operation)
Real-time Clock	Battery-backed real-time clock.
Status Indicators	LED Status indicators for EIA-232/485 communication, Ethernet port communication, and low battery status. Seven segment status display for running, error, and power status
Module Addressing	Rotary dip switches for intuitive network addressing of modules
Protection	Built-in surge and transient protection circuitry for power and communications
Listing	UL916 (Canadian Std C22.2 No. 205-M1983), CE, FCC Part 15 - Subpart B - Class A, BTL - BACnet Listed Device / BMA - BACnet Manufacturer
Power requirements	24 Vac ± 10%, 50 to 60 Hz, 24 VA, or 24 Vdc ± 10%, 10W

Mechanical

Physical	Rugged aluminum cover. Removable screw terminal blocks
Weight	1.4 lb.



Environmental

Operating Range	-20°F to 140°F (-29°C to 60°C); 10 to 90% relative humidity, non-condensing

Note: Control Modules should be installed within the building.

Wiring

Port Assignments for E-LINK

Protocol	Port
Lumisys Protocol	S2*
BACnet IP	E1**
BACnet over Ethernet	E1**
BACnet over ARCNET	CMnet**
BACnet over PTP	S2**
BACnet over MS/TP	S1**
Modbus	S1
DALI	E1**
TRIATEK Legacy Protocol	S2*

* Use Port S1 for Lumisys protocol or TRIATEK legacy protocol when communicating BACnet over PTP, otherwise use Port S2.

** Only one (1) BACnet protocol may be used with the Lumisys network per E-LINK.

For complete wiring diagrams refer to the E-LINK installation Guide.

UL 916

BS EN ISO 9001:2000