

Project		Catalog #		Type	
Prepared by		Notes		Date	



Greengate

EIM - Ethernet Interface Module

A secured serial-to-ethernet protocol converter used to allow Greengate software applications to communicate with the Greengate panels.

Typical Applications

Education • Healthcare • Hospitality • Office • Retail

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Product Certification



Overview

The Ethernet Interface Module (EIM) use the SSL and SSH protocols to transmit encrypted serial data over Ethernet. This device enables data exchange between Keeper Enterprise, Greengate panels' programming software application, and the Greengate panels.

Product Features & Benefits

- **Interface from TCP/IP to RS-232** – Provides data exchange between Keeper Enterprise and Greengate panels and allows specialist to program the panels.
- **TLS and SSH Protocols support** – Encrypting data before sending it over the network
- **Intuitive web-based configuration page** – Allows installer to easily customize the devices settings based on the network requirements
- **120 VAC wall transformer** – External power source to power the EIM

Order Information

This is an accessory for the ControlKeeper TouchScreen, ControlKeeper 4, ControlKeeper 4A, ControlKeeper 2, LiteKeeper 16 & 32, LiteKeeper 8 and LiteKeeper 4 lighting control panels. When ordering, specify the Ethernet Interface Module (EIM) as a separate system accessory.

Catalog Number

Catalog Number	Description
EIM	Ethernet Interface Module

Product Specifications

Manufacturer: MOXA NPort 6150 Series

Mechanical

Size: 3.54" x 3.95" x 1.1" (90 mm x 100.4 mm x 29 mm)

Mounting: Desktop, DIN-rail mounting (with optional kit), Wall mounting. Note: DIN-RAIL mounting kits to be purchased directly from a MOXA supplier

Interfaces:

- 1 x RJ45 for Ethernet (10/100Base Tx)
- 1 X DB9 male for Serial communication

Electrical

- 1 x Power adapter provided.
- Input Current: 12-48 Vdc, 285 mA
- Input Voltage: 12 to 48 VDC

Environmental:

- **Operating temperature:** 32°F to 104°F (0°C to 40°C)
- **Storage temperature:** -40 to 75°C (-40 to 167°F)
- **Ambient Relative Humidity:** 5 to 95% (non-condensing)
- For indoor use only

Ethernet Configuration Options:

Configuration options: Web Console (HTTP/HTTPS), Windows Utility, Device Search Utility (DSU), MCC Tool, Serial Console, Telnet/SSH Console

Time Management: SNTP Client

Encryption: HTTPS, AES-128, AES-256, HMAC, RSA-1024, SHA-1, SHA-256, SHA-384

Security Protocols: HTTPS (TLS 1.2), SNMPv3, SSHv2

Serial Configuration options:

Serial Standards: RS-232, RS-422, RS-485

Secure Operation Modes: Reverse SSH, Secure Pair Connection, Secure Real COM, Secure TCP Client, Secure TCP Server, SSH

Standard Operation Modes: Disabled, Ethernet Modem, Pair Connection, PPP, Printer, Real COM, Reverse Telnet, RFC2217, TCP Client, TCP Server, Terminal, UDP

Baudrate: 50 bps to 921.6 kbps (supports non-standard baudrates)

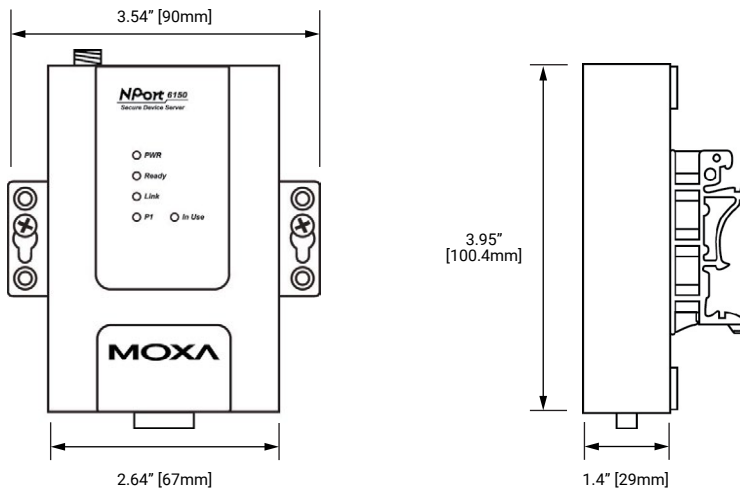
Standards/Ratings

- cULus
- FCC

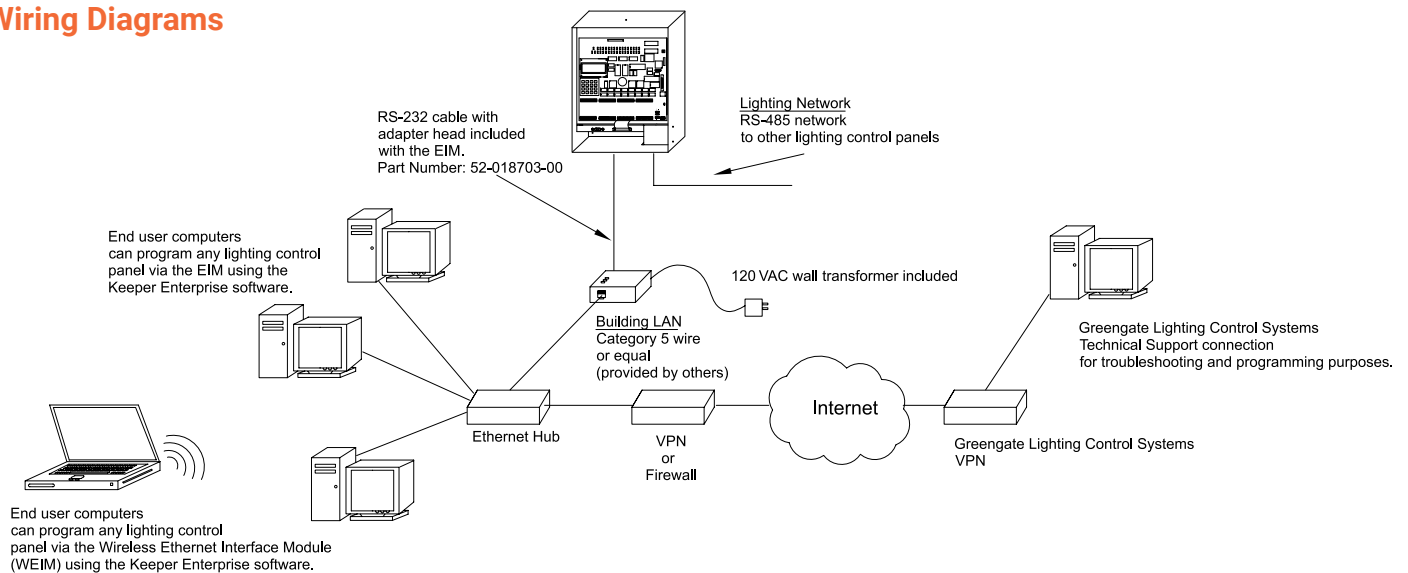
Warranty

Five year warranty standard

Dimensional Details



Wiring Diagrams



The Ethernet Interface Module (EIM) permits the lighting control network to be accessed directly from the building LAN. This will permit the end user to monitor and program the lighting control panels from any PC in the building with the Keeper Enterprise software installed. The EIM also permits Greengate Lighting Control Systems to connect to the lighting control panels with the permission of the end user for programming and troubleshooting purposes.

- 1.) IP address and device configuration is supplied by owner (Building IT department)
- 2.) The EIM may be connected to any lighting control panel on the network
- 3.) 100% secure connection through the end users Firewall using the following technologies:
 - A.) VPN connection (lock the connection down to only a few PC's) provides encryption as well as the ability to specify the computers that may connect to the unit.
 - B.) Up to 256 bit encryption without a VPN connection. If two Secure EIM's are installed up to 256 bit encryption is available for communications.