



# INSTRUCTION / INSTALLATION SHEET

## Lighting Manager Module

301 Fulling Mill Road, Suite G  
Middletown, PA 17057  
Phone (800) 321-2343 / Fax (717) 702-2546  
www.onqlegrand.com

### IS-0277 Rev. A

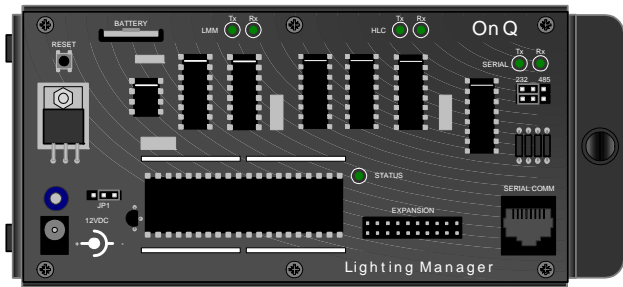


Figure 1. Lighting Manager Module

## I. INTRODUCTION

The part no. 364709-01 Lighting Manager expansion module connects to the part no. 364644-01 On-Q Home Lighting Controller to provide automation of Advanced Lighting Control (ALC) Switches and I/O Modules. With the Lighting Manager Module a user may create up to 128 conditional "event-action" programs.

System events may be ALC switch events (pressed on or off), I/O Module input triggers, X10 powerline control signals, user specified times, days, dates or sunrise/sunset. System actions include turning ALC I/O Module outputs or Relay Switches on or off. System actions may also include setting ALC Dimmers to specific levels at any rate specified by the user. A system action may also include execution of lighting scenes. The Lighting Manager Module supports 16 programming "flags" so that programs may be conditionalized. Programming flags 0 thru 3 are non-volatile.

The Lighting Manager Module incorporates a 10-year battery-backed, real time clock controller and non-volatile program memory. It calculates the time for sunrise and sunset each day based on the latitude, longitude and time zone entered by the user.

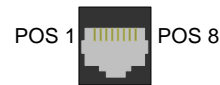
The Lighting Manager Module incorporates a serial port which may be configured for RS232 or RS485 operation. All set-up and programming activities are performed using On-Q's SceneTech PC software version 2.50 or later. The Lighting Manager's serial port may be connected to serial communicating keypads, IR controls, automation systems, personal computers and home theater systems. Since, all ALC lighting switches can both receive and transmit data via the Lighting Manager, the press of an ALC switch can initiate system events for program control of automation macros, security levels, temperature set-points and entertainment equipment settings.

## II. INSTALLATION

The Lighting Manager Module mounts to an On-Q enclosure or network center bracket. Each Lighting Manager connects directly to a Home Lighting Controller's expansion connector with a supplied 20-position ribbon cable. The Lighting Manager Module is pre-configured to pull 12VDC power from the Home Lighting Controller's expansion connector. The Lighting Manager may optionally be configured to

receive power from an external 12VDC power transformer. The Lighting Manager Module is pre-configured for RS232 serial communications operation. It may optionally be configured for RS485 operation.

**Note: Remove power prior to connecting the Lighting Manager to the Home Lighting Controller.**



- Position 1: not used
- Position 2: GROUND
- Position 3: LMM/HLC SEL
- Position 4: TRANSMIT
- Position 5: RECEIVE
- Position 6: not used
- Position 7: not used
- Position 8: not used

Figure 2. SERIAL COMM Connector Pin-Out

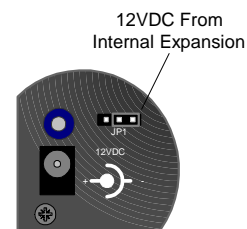


Figure 3. Power Source Jumper:

- Left = External 12VDC
- Right = Internal 12VDC

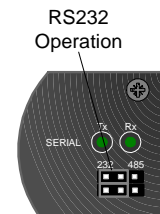


Figure 4. RS232/485 Jumper:

- Left = RS232
- Right = RS485

## III. OPERATION

Upon powering up the Lighting Manager Module, the STATUS LED indicator will blink at a rate of approximately 1 blink per second. If the STATUS indicator remains On or Off, it is an indication of a fault. In the

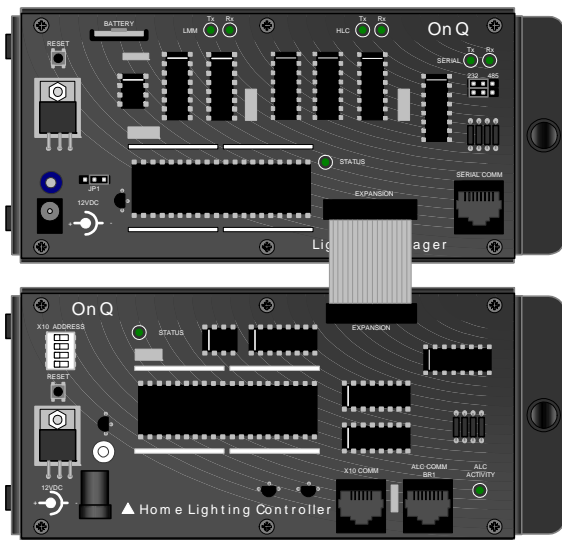
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event of a fault, check all connections and power to the Lighting Manager Module and the Home Lighting Controller.

Subsequent to making any alterations to the system, such as an address change to an ALC switch, the Home Lighting Controller and the Lighting Manager Module should be reset. Resetting can be accomplished either by removing power or by pressing the RESET buttons.

**Note: Remove power prior to connecting new devices. Verify all connections prior to restoring power**

The TX LED indicators provide a diagnostic feature. The TX LED's will blink whenever the Home Lighting Controller detects any system activity. The LED's will blink when activity is detected at any of the controller's four inputs. The LED's will also blink when X10 commands are received at the Home Lighting Controller's X10 COMM port.



**Figure 5. Lighting Manager Connection to Home Lighting Controller**

### IV. SERIAL COMMUNICATIONS AND INTERFACING

The Lighting Manager Module's serial port enables interfacing to personal computers and host control systems. In this manner, the Home Lighting Controller may function as a lighting system manager in an integrated system environment. The serial communications port may be configured for either 9600 bps RS-232 or RS-485 operation. When connected to a host controller's serial port, the Lighting Manager's integral serial port may provide direct access to all ALC lighting control features. The serial port supports two serial communications protocols; ASCII-Link and ALC-Link. ASCII-Link is a low level ASCII character based communications protocol. ALC-Link is a high level communications protocol intended for incorporation into 3<sup>rd</sup>

party controller firmware. This protocol provides access to all ALC switch operational features and individual switch status information. Refer to the Part No. 1307659 Developers Guide for detailed protocol information.

### V. PC PROGRAMMING

The On-Q SceneTech PC Software, part no. 364630-01, provides additional useful features to allow testing and verification of Home Lighting Control system installations. The SceneTech software also provides installers with the ability to edit "Local" lighting scene programs as well as create and edit "Global" lighting scene programs. The On-Q SceneTech Software operates within any Windows 95 or later PC system environment.

### VI. WARRANTY

On-Q/Legrand warrants to the end-user, each new ALC product to be free of defects in materials or workmanship for a period of one year from the date of original purchase from On-Q or its authorized reseller or installer. Each product is deemed warrantable under conditions of normal use and when installed and operated within On-Q specifications and in accordance with the applicable National Electrical Code and Safety Standards of Underwriters Laboratories. When determined to be warrantable, On-Q shall at its option and expense, replace any defective product with a new or reconditioned product. On-Q will continue to warrant any replaced product for a period of ninety (90) days from shipment, or through the end of the original warranty period, whichever is longer.