

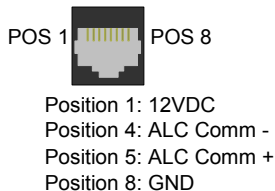
**Figure 1. Home Lighting Expansion Module**

**INTRODUCTION**

As an expansion device to the OnQ Home Lighting Controller, the part no. 364726-01 Home Lighting Expansion Module provides control of up to 93 additional Advanced Lighting Control (ALC) switches and I/O Modules. When expanded, the OnQ Home Lighting System provides control of up to 124 ALC lighting control switches and I/O Modules.

**INSTALLATION**

The Lighting Expansion Module mounts to an OnQ enclosure or network center bracket adjacent to the OnQ Home Lighting Controller. Each Lighting Expansion Module is furnished with a flat ribbon cable assembly to connect the Lighting Expansion Module to the OnQ Home Lighting Controller's EXPANSION connector. When the power source shunt is placed in position A, the Lighting Expansion Module receives 12VDC power from the OnQ Home Lighting Controller. When the power source shunt is placed in position B, the Lighting Expansion Module receives 12VDC power from an external power supply. It is recommended that an external power supply possess a rating of 800mA.



**Figure 2. ALC BRANCH Connector Pin-Out**

**CONNECTIONS**

The Lighting Expansion Module provides three ALC communication ports. The Lighting Expansion Module provides three modular jack connectors for interfacing ALC switches and I/O modules to the communication ports; ALC BRANCH 2, ALC BRANCH 3 and ALC BRANCH 4.

Positions 4 and 5, of the ALC BRANCH 2 port, provides connections for ALC addresses 32 thru 62 and up to 500 feet of category rated cable. Positions 4 and 5, of the ALC BRANCH 3 port, provides connections for ALC addresses 63 thru 93 and up to 500 feet of category rated cable. Positions 4 and 5, of the ALC BRANCH 3 port, provides connections for ALC addresses 94 thru 124 and up to 500 feet of category rated cable.

Positions 1 and 8, of the ALC BRANCH ports provide connections for distribution of 12VDC power to part no. 364677-01 ALC Branch

Hubs and part no. 364678-01 I/O Modules. Current draw from all connected external devices should not exceed 600mA.

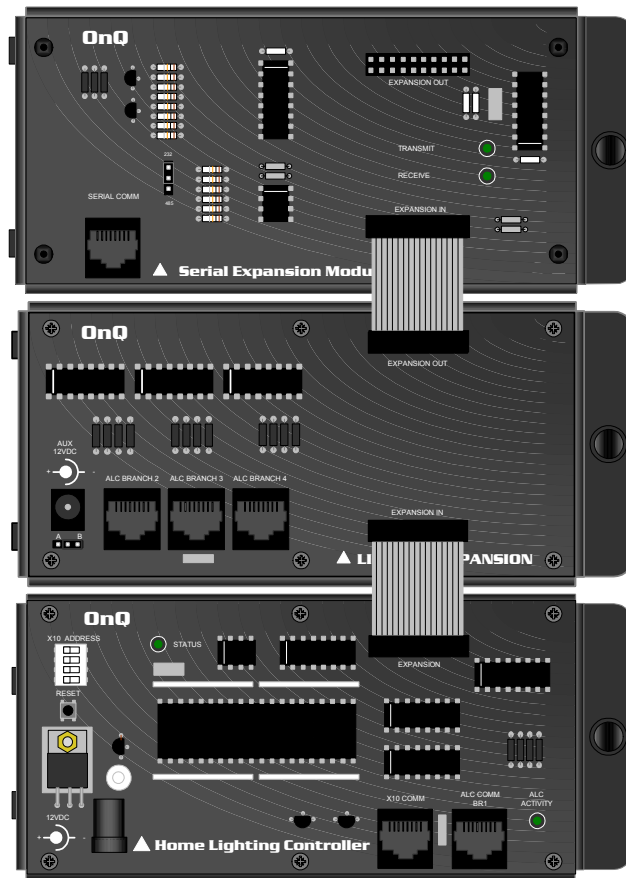
**OPERATION**

Upon powering up the Home Lighting Controller and Lighting Expansion Module combination, the STATUS LED indicator on the controller 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 event of a fault, check all connections and power to the Home Lighting Controller and Lighting Expansion Module.

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

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

The ALC ACTIVITY LED indicator serves as a diagnostic feature. The ACL ACTIVITY LED will blink whenever the controller detects any system activity. The ALC ACTIVITY LED is particularly useful in verifying proper connection of ALC switches and I/O modules. When any ALC switch button is pressed or I/O Module input is activated, the ALC ACTIVITY indicator will blink in response to the event.



**Figure 3. Expanded Home Lighting System**

## WIRING DISTRIBUTION

The part no. 364645-01 Wiring Distribution Module is intended for use with the Home Lighting Controller and the Lighting Expansion Module. When connected to the Lighting Expansion Module, the Distribution Module supports direct wiring of ALC Dimmers, Relay Switches, Auxiliary (slave) Switches, Scene Switches, Program Switches, I/O Modules and ALC Branch Hubs. Direct wiring is conducive to testing and quick isolation of faults when they occur. A modular patch cable (included) connects the Distribution Module's CONTROLLER jack to the Lighting Expansion Module's ALC BRANCH jacks. All connection points consist of 110 style IDC connectors for connection of category 3, 5 or 5E cables.

## WARRANTY

OnQ 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 OnQ or its authorized reseller or installer. Each product is deemed warrantable under conditions of normal use and when installed and operated within OnQ specifications and in accordance with the applicable National Electrical Code and Safety Standards of Underwriters Laboratories. When determined to be warrantable, OnQ shall at its option and expense, replace any defective product with a new or reconditioned product. OnQ 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, which ever is longer.



Figure 4. Lighting Expansion with Wiring Distribution