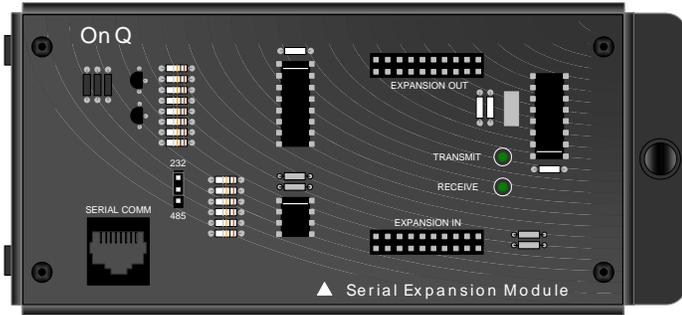


301 Fulling Mill Road, Suite G  
 Middletown, PA 17057  
 Phone (800) 321-2343 / Fax (717) 702-2546  
 www.onqlegrand.com

## IS-0238 Rev. A



**Figure 1. Home Lighting Serial Expansion Module**

### I. INTRODUCTION

The part no. 364698-01 Home Lighting Serial Expansion Module (see **Figure 1**) enables the On-Q Home Lighting Controller to interface 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 controller provides direct access to all ALC lighting control features.

The Home Lighting Controller provides two serial communications protocols; ASCII-Link and ALC-Link. ASCII-Link is a low level ASCII character based communications protocol suitable for interfacing of systems by installation technicians in the field. ALC-Link is a high level communications protocol intended for incorporation into a 3<sup>rd</sup> party manufacturer's 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. Refer to the part no. HLC\_SI application note for lighting control, programming and unsolicited messaging examples utilizing the ASCII character based protocol.

The Serial Expansion Module is factory configured for RS232 serial communications. The module may be configured for RS485 serial communications by moving the RS232/RS485 shunt to the RS485 position. The TRANSMIT and RECEIVE LEDs will flash to indicate the direction of serial data flow.

### II. CONNECTIONS

The Serial Expansion Module provides a 20-position header connector for connection to the OnQ Home Lighting Controller's expansion connector. Use the supplied 20-position ribbon cable to connect both modules. The Serial Expansion Module provides an 8-position modular jack serial communications port. See **Figure 2** for pin-out details.



- Position 1: Not Used
- Position 2: Ground
- Position 3: Not Used
- Position 4: Tx (Transmit)
- Position 5: Rx (Receive)
- Position 6: Not Used
- Position 7: Not Used
- Position 8: Not Used

**Figure 2. SERIAL COMM Port Pin-Out**

### III. WARRANTY

On-Q 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, which ever is longer.