

# MARQUEE® LYTEMODE® ARCHITECTURAL INTERFACE CARD (MQSUG) INSTALLATION & SETUP GUIDE

## 1. Overview

The Marquee® LYTEmode® Architectural Interface Card (MQSUG) is designed for installation in the rear panel of a Marquee® Control Console. The card provides integration with a Lightolier® Controls LYTEmode® Architectural ILS Network to communicate with architectural control button stations for houselights, lobby, cue recall, emergency lights, etc. During operation, the Marquee® software will be able to send ILS commands or the ILS Button Stations can be configured to send macro commands to the console.

**BEFORE INSTALLING - PLEASE READ:** The LYTEmode® Architectural Interface Card requires Marquee® Software Version 3.2 or later to operate. If your Marquee® Console does not have v3.2 or later, please visit the Entertainment Technology website ([www.etdimming.com](http://www.etdimming.com)) and click on the Marquee® Lighting Control Software Update link. After downloading and installing the software, you can proceed with installation of the MQSUG Card.

## 2. Installing LYTEmode® Architectural Interface Card

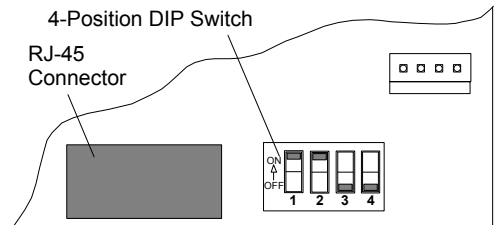
Install the LYTEmode® Architectural Interface Card (MQSUG) in the Marquee® console rear panel as follows:

Step 1. At MQSUG Card, use 4-position DIP Switch to set desired Status LED operation (**Figure 1**). The LED can be configured as Red or Green and will operate as follows:

- **Red LED:** Indicates RS-232 and Expansion Port traffic.
- **Green LED:** Indicates ILS Network traffic.

Settings are as follows:

- DIP Switch 1 ON: Enables Red Status LED.
- DIP Switch 1 OFF: Disables Red Status LED.
- DIP Switch 2 ON: Enables Green Status LED.
- DIP Switch 2 OFF: Disables Green Status LED.
- DIP Switches 3 and 4: *not used*

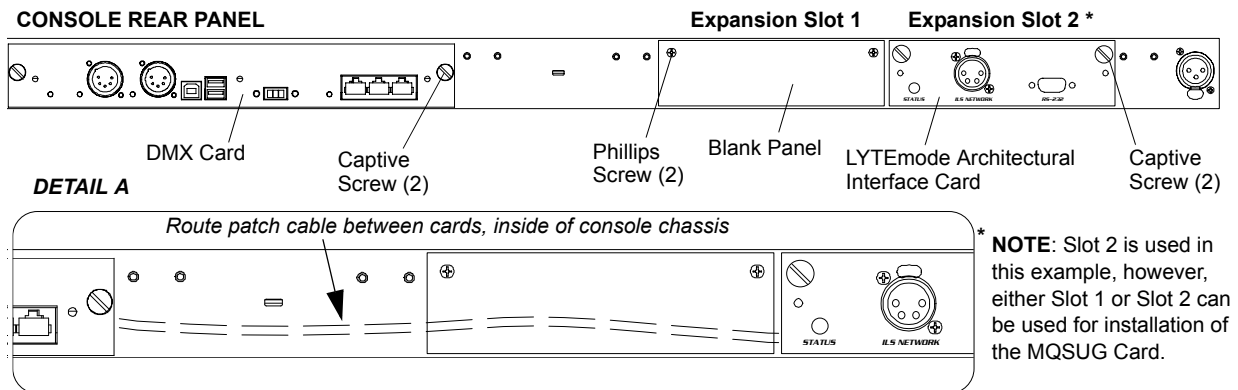


**Figure 1: MQSUG Card (Top/Rear)**



Step 2. Remove power from Marquee® console. (Failure to do so, may result in damage to the PCB cards!)

Step 3. At console rear panel, choose a slot for installation (there are two expansion slots available). Remove blank panel by removing two Phillips screws (**Figure 2**). *Note:* Only one MQSUG Card may be installed.



**Figure 2: Installing LYTEmode® Architectural Interface Card**

Step 4. As shown in **Figure 2**, remove DMX Card by loosening two captive screws and sliding out of console (do not disconnect cables).

Step 5. Connect RJ-45 Patch Cable (supplied with MQSUG Card) to any open RJ-45 connector at rear of DMX Card (not on the front of the card).

- Step 6. Feed Patch Cable inside console chassis and route toward open expansion slot. Slide DMX Card back into its slot and secure by hand-tightening two captive screws.
- Step 7. Position MQSUG Card near expansion slot and connect remaining end of Patch Cable to either RJ-45 connector at rear of card (**Figure 1**). Insert MQSUG Card into slot and secure by hand-tightening two captive screws.

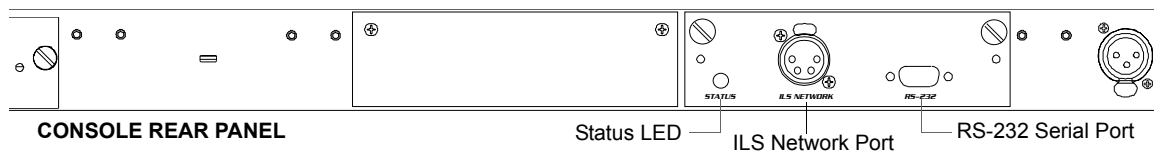
### 3. Connecting to an ILS Network

The **ILS Network Port** allows integration with various LYTEmode® button stations. This port accepts a standard CAT-5 cable (use shielded CAT-5 cable for very long runs). Connect using the following wiring convention:

<b>PIN 1:</b> Ground	<b>PIN 3:</b> Data +
<b>PIN 2:</b> Data -	<b>PIN 4:</b> VNET (15 - 24 VDC)

**Note:** The MQSUG Card supplies a maximum of 300 mA for the LYTEmode® ILS Network. A typical LYTEmode® Button Station requires 25 mA; therefore, a total of 12 button stations may be used without a booster power supply. If more current is needed, a Lightolier® Controls ILSLMP5 power supply should be installed in the network.

The **RS-232 Serial Port** allows integration with a LYTEmode® ILS Network using standard RS232 communication. This port accepts a standard serial cable.



**Figure 3: Connecting to ILS Network**

The Status LED can be configured as Red or Green (refer to Installing LYTEmode® Architectural Interface Card on previous page). During operation, the Status LED will indicate the following conditions:

**Red LED (RS-232 and Expansion Port Traffic)**

- No LED = No power
- Solid = Power, CPU not running
- Slow Flash = No communication to console
- Fast Flash = Connected to console

**Green LED (ILS Network Traffic)**

- No LED = No power
- Solid = Power, CPU not running
- Slow Flash = No communication to console
- Fast Flash = Connected to console

Refer to the Marquee® **Help** file for more information regarding ILS Network interface operations.

### 4. Customer Support

For Marquee® hardware technical/customer support, please contact Entertainment Technology as follows:

**1.800.223.9477** or [customerservice@genlytecontrols.com](mailto:customerservice@genlytecontrols.com)

For Horizon® software technical/customer support, please contact Horizon Control Inc. as follows:

**1.412.422.3100** or [support@horizoncontrol.com](mailto:support@horizoncontrol.com)

This product may be covered by one or more of the following U.S. Patents: #4,413,211; 4,430,576; 4,465,956; 4,733,138; 4,792,731; 4,880,950; 4,988,840; 4,992,709; 5,004,969; 5,004,969; 5,128,654; 5,153,816; 5,189,259; 5,194,858; 5,239,255; 5,239,255; 5,371,439; 5,371,444; 5,506,480; 5,636,111; 5,642,104; 5,646,490; 5,814,550; 5,821,704; 5,920,156; 5,930,126; Des. #307,578; 333,124; 435,203; 440,207; License #4482844; 5,004,969; 5,239,255; and corresponding foreign patents. Other Utility, Design and Foreign Patents Pending.

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**1-800-223-9477** or **1-214-647-7880**

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