INSTRUCTION / INSTALLATION SHEET
lyriQ™ 4x8 Zone Expander for Unity

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IS-0439 Rev. O

1. INTRODUCTION

The Legrand lyriQ™ 4x8 Zone Expander for Unity, P/N AU1023 (see **Figure 1**), gives the homeowner the ability to easily support 16 individual audio zones in a Unity environment. It is housed in the structured wiring enclosure, and connected between two lyriQ™ Four Source, Eight Zone Distribution Modules (P/N AU1002) and the Unity Integration Module (P/N HA6001).

The lyriQ™ Zone Expander for Unity is used as an integral part of the lyriQ™ Audio System, which utilizes Category 5 technology to distribute high quality audio to remote locations via Category 5 cable, creating a versatile whole-house audio system that will fill your rooms with high quality sound for years to come.

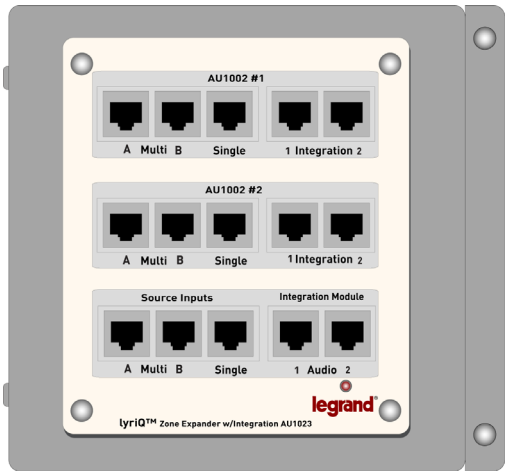

Figure 1

2. DESCRIPTION

To support 16 lyriQ™ audio output zones in one lyriQ™ Multi-source system, the 4 audio sources from a combination of a lyriQ™ Triple Source Input (P/N F7428 or AU1011-xx for flush-mount) and a lyriQ™ Single Source Input (P/N F7398 or AU1004-xx for flush-mount) are fed to the lyriQ™ Zone Expander for Unity, which in turn feeds those inputs to two lyriQ™ Four Source, Eight Zone Distribution Modules, effectively giving the homeowner 16 audio output zones (see ***Figure 2***). The IR signal lines are also passed along to the output zones, and the audio interrupt functionality normally associated with our Intercom system is also supported.

NOTE: The Unity Zone Expander does not require an external power supply, as required power comes from the attached lyriQ™ Four Source, Eight Zone Distribution Modules.

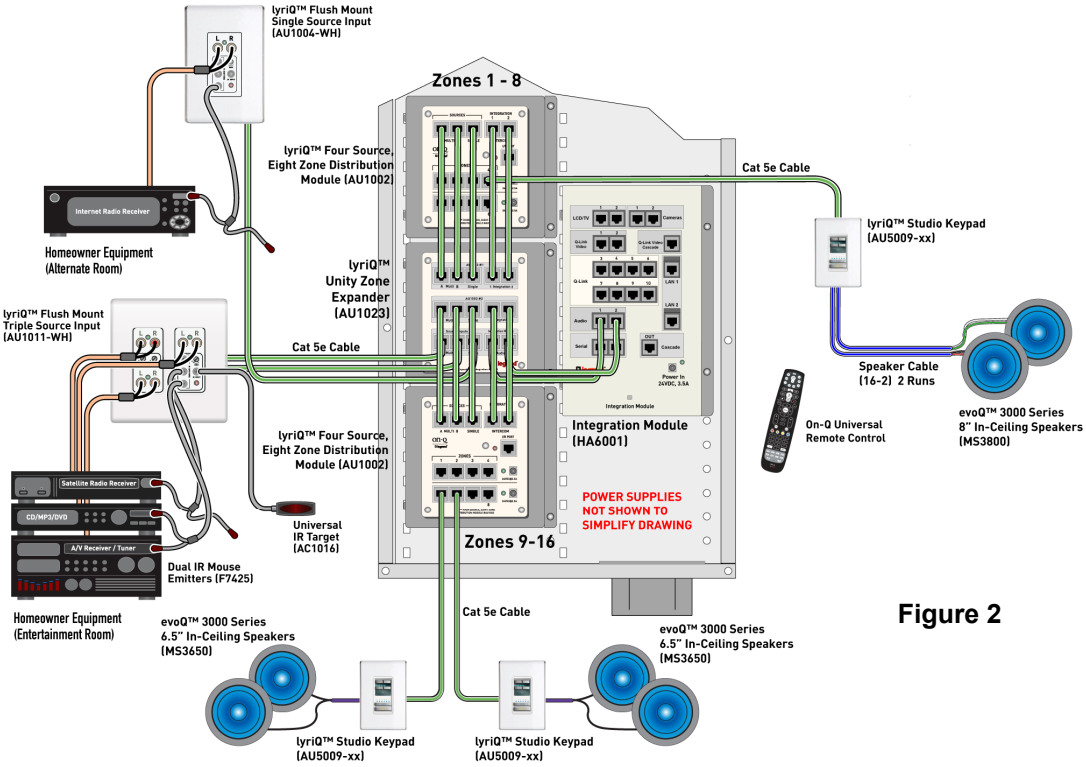

Figure 2

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3. INSTALLATION

Installation of the Legrand lyriQ™ 4x8 Zone Expander for Unity and related components, may be accomplished at multiple times during new construction, (at “Rough-in” before the drywall is installed, and at “Trim-out” after the drywall is installed and painted), or as an upgrade to an existing lyriQ™ Multi-source system to expand its support from 8 to 16 output zones (see ***Figure 2***).

IMPORTANT: Read the documentation that is included with all associated lyriQ™ Audio products before installation of any single component! If you are unsure of any of the following installation procedures contact Legrand Technical Support @ 1-800-321-2343 option 1 or contact a Legrand installer.

NOTE: To provide ultimate flexibility, run three Category 5 cables from the lyriQ™ Source Input area (such as the Entertainment Center area) to the lyriQ™ Zone Expander for Unity in the enclosure. Also, run a 16/4 speaker cable, along with the Category 5 cable, from the lyriQ™ Four Source, Eight Zone Distribution Modules to each Keypad Volume Control location to support the power requirements now or in the future for High Performance lyriQ™ Keypad Volume Controls. Of course you will also need a 16/2 cable to each speaker from the Keypad Volume Control.

A. "ROUGH-IN" STEPS

1. Run three Category 5 cables to the enclosure from the room location containing the lyriQ™ Source Inputs (typically the entertainment center location).
2. Run Category 5 cables with 16/4 speaker cables to the enclosure from each room that will contain the lyriQ™ Keypad Volume Controls.

NOTE: Always follow TIA-570-B wiring standards for installing and terminating Category 5 cable. Failure to follow the correct wiring standard could result in damaged equipment and/or electrical interference issues.
NOTE: Maintain a minimum 12” separation between Category 5 cable and any 120VAC cabling.

NOTE: The 16/4 speaker cable is for support of the power requirements of the High Performance lyriQ™ Keypad Volume Controls

B. "TRIM-OUT" STEPS

1. At the location of the lyriQ™ Single Source Input, if it is a Flush-mount version (P/N AU1004-xx), terminate one of the Category 5 cables with an **RJ-45 Plug** using the T568A wiring standard, then plug it into the back of the Flush-mount Single Source Input and mount it in the low voltage bracket or electrical box. If it is a standalone version (P/N F7398), pull the Category 5 cable from the enclosure through the low voltage bracket or electrical box, and terminate it on an RJ-45 insert, then snap it into a wall plate which is mounted to the low voltage bracket or electrical box.
2. At the location of the Triple Source Input, if it is a Flush-mount version (P/N AU1011-xx), terminate two of the Category 5 cables with **RJ-45 Plugs** using the T568A wiring standard, then plug them into the back of the Flush-mount Triple Source Input and mount it in the low voltage bracket or electrical box and cover with a wall plate. If it is a standalone version (P/N F7428), pull two Category 5 cables from the enclosure through the low voltage bracket or electrical box, and terminate them on RJ-45 inserts, then snap them into a wall plate which is mounted to the low voltage bracket or electrical box. Then run Category 5 jumpers from wall plate to the Triple Source Input.

NOTE: The lyriQ™ Four Source, Eight Zone Distribution Module has three source input jacks labeled “Single” and “Multi A and B”. It is very important that the Category 5 cables from the Source Inputs are run from the correct source to the correct jack. Also make sure that no Power Supplies are connected to the Distribution Module before performing the next steps.

3. At the enclosure: Install the lyriQ™ Zone Expander for Unity and each lyriQ™ Four Source, Eight Zone Distribution Module in an On-Q style enclosure using the included plate's tabs and push pins. If installing into an existing bay-style bracket, simply discard the mounting plate and secure the module to the bracket with the push pins in each module corner.

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4. Terminate the three Category 5 cables run from the single and triple sources with RJ-45 plugs using the T568A wiring standard.
5. Plug the Category 5 cable from the Single Source Input into the **SOURCE INPUTS -> SINGLE** jack on the lyriQ™ Zone Expander for Unity and run Category 5 jumpers from each **SINGLE** output jack to each **SOURCES -> SINGLE** input jack on the two lyriQ™ Four Source, Eight Zone Distribution Modules.
6. Plug the Category 5 cable from the “A” output of the Triple Source Input into the **SOURCE INPUTS -> MULTI A** jack on the lyriQ™ Zone Expander for Unity and run Category 5 jumpers from each **MULTI A** output jack to each **SOURCES -> MULTI A** input jack on the two lyriQ™ Four Source, Eight Zone Distribution Modules.
7. Plug the Category 5 cable from the “B” output of the Triple Source Input into the **SOURCE INPUTS -> MULTI B** jack on the lyriQ™ Zone Expander for Unity and run Category 5 jumpers from each **MULTI B** output jack to each **SOURCES -> MULTI B** input jack on the two lyriQ™ Four Source, Eight Zone Distribution Modules.
8. Run Category 5 jumper cables from the “Integration #1 and #2” jacks on the lyriQ™ Zone Expander for Unity to the same jacks on each lyriQ™ 4x8 Module. Then run Category 5 jumper cables from the “Integration Module Audio #1 and #2” jacks on the lyriQ™ Zone Expander for Unity to the “#1 and #2 Audio” jacks on the Integration Module.
9. Terminate each Category 5 cable coming from each room with a Keypad Volume Control using the T568A wiring standard, then plug each of those cables into the **Zone Output** jacks on each lyriQ™ Four Source, Eight Zone Distribution Module .
10. If using High Performance Keypads, connect the 16/4 speaker wires from each room with a High Performance Keypad Volume Control to the High Performance Power Distribution Module.
11. Plug the appropriate number of 24 volt power supply cables into the Power jacks on the lyriQ™ Four Source, Eight Zone Distribution Modules (depending on Zone and High Performance Keypad usage).
12. Verify system functionality.

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