

MUSICA™ Application Note

Musica Expanding to 18 Rooms

Introduction

By using the 18-Room Expansion Kit and two additional *Musica* Audio Distribution Centers (ADC), you can share four sources with 18 keypads.

Requirements

This configuration requires:

- an 18-room expansion kit (NS-MUXK-18) that includes:
 - four Y cables with RCA connectors,
 - six stereo audio cables (1 meter in length), and
 - one triple-headed, 6 ft. null modem cable with three DB9 connectors.
- three *Musica* ADCs, and
- additional keypads (as required).

Installation

Figure 1 shows you how to connect an 18-room *Musica* system. The ADCs are labeled 1, 2, and 3 for ease of reference. To expand a *Musica* system to work in up to 18 rooms, complete the following steps:

1. Turn off power to all devices.
2. Plug the male end of the four Y adapters into the S1 left and right channels of ADC(1) and ADC(2).
3. Run an RCA male to male cable from the left channel of the source to one of the female ends of the Y connector for the left channel on ADC(1).
4. Run an RCA male to male cable from the female end of the Y connector for the left channel on ADC(1) to the female end of the Y connector for the left channel on ADC(2).
5. Run an RCA male to male cable from the female end of the Y connector for the left channel on ADC(2) to the left channel on ADC(3).
6. Repeat steps 2. through 5. using right channel connections.
7. Connect the serial cable to the RS-232 ports of all ADCs using the three-headed RS-232 cable.



The
IP-Based
Distributed
Entertainment
Company.

Products Included:

Musica MU4602 ADC
Musica MU4602 Keypads
Musica MUXK-18
Or
Musica MU5066 ADC
Musica MU5066 Keypads
Musica MUXK-18

8. Run the IR emitter from the S1 output of ADC(1) to the front of the source.

NOTE: S1 keypad button presses from ADC(2), and ADC(3) are sent to ADC(1) using RS-232 commands. ADC(1) creates the desired IR command and sends it to the S1 IR output.

You do not need to run more than one IR emitter (unless you are using passthrough IR with a handheld remote).

9. When connection is complete, turn on power to all devices and test each zone.

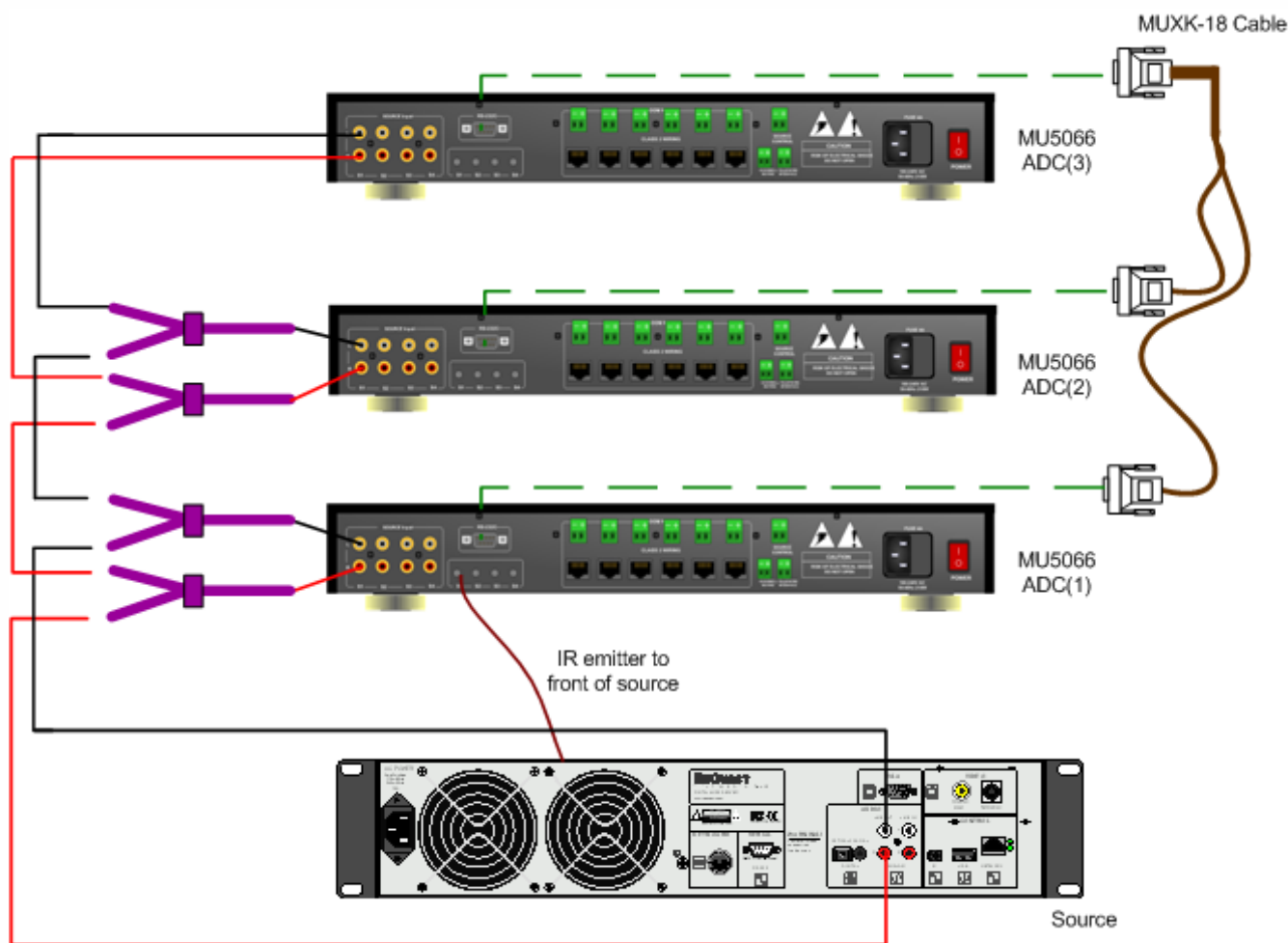


Figure 1 Connecting a Musica System Expandable up to 18 rooms