

User Manual

Model 1870 Serial Switch Controller



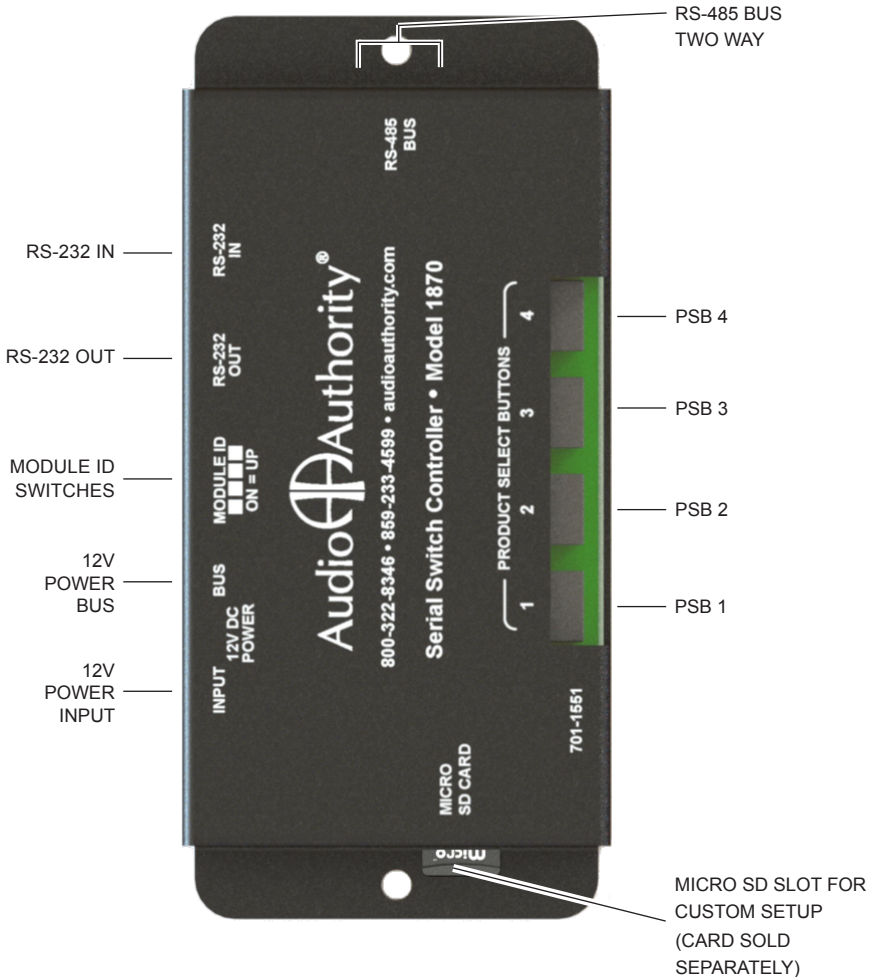
Audio  Authority®

Model 1870 Serial Switch Controller

The Audio Authority® 1870 Serial Switch Controller provides a flexible way to control a compatible mediahub, such as a MH2-HD, with RS-232 serial commands. Each 1870 controls four push-buttons and may be expanded to 64 positions. RJ9 style push-buttons may be used for product selection or other commands.



COMPATIBLE WITH
AUDIO AUTHORITY
MEDIAHUBS



Package Contents

Before installing this product, please check the packaging and make certain the following items are contained in the shipping carton:

- 1870 Serial Switch Controller
- 12V 1.5A DC Power Adapter
- 711-126 Mounting Screws (2)

Button Control Functions

Demonstration is controlled by RJ9 style push-buttons (Audio Authority PN: 013-100, 013-101, 013-102). The 1870 allows custom button setup via the microSD card. Stored in "AUTO.txt", each button can be assigned a command to output on the RS232 OUT port. If a microSD card isn't present, default commands will be used for each button press. Command protocol depends on the device.



RJ9 Buttons are available in several colors.

Buttons are lit solid when idle. Push the button to start demo; if no demo is playing, the demo starts and the button blinks.

RS-232 Ports

The RS-232 port connects via modular RS-232 to any compatible device at a 9600 Baud rate. RX is located on pin 3, TX on pin 6, and GND on pin 7. A special RJ-45 to DB-9 cable is available from Audio Authority, PN: 801-252.

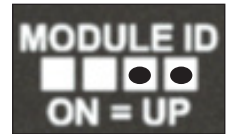
RS-485 COM Bus

The RS-485 communication pathway is for use with multiple 1870s. Both RJ-45 jacks are bi-directional. See Module ID below.

Module ID Switches

The Module ID switches 1-4 are off by default (UNIT 1). To set the Module ID for more than one 1870 follow the chart below.

Switch	1	2	3	4
UNIT 1	OFF	OFF	OFF	OFF
UNIT 2	OFF	OFF	OFF	ON
UNIT 3	OFF	OFF	ON	OFF
UNIT 4	OFF	OFF	ON	ON
UNIT 5	OFF	ON	OFF	OFF
UNIT 6	OFF	ON	OFF	ON
UNIT 7	OFF	ON	ON	OFF
UNIT 8	OFF	ON	ON	ON
UNIT 9	ON	OFF	OFF	OFF
UNIT 10	ON	OFF	OFF	ON
UNIT 11	ON	OFF	ON	OFF
UNIT 12	ON	OFF	ON	ON
UNIT 13	ON	ON	OFF	OFF
UNIT 14	ON	ON	OFF	ON
UNIT 15	ON	ON	ON	OFF
UNIT 16	ON	ON	ON	ON



Address for unit 4 marked on case.

Power

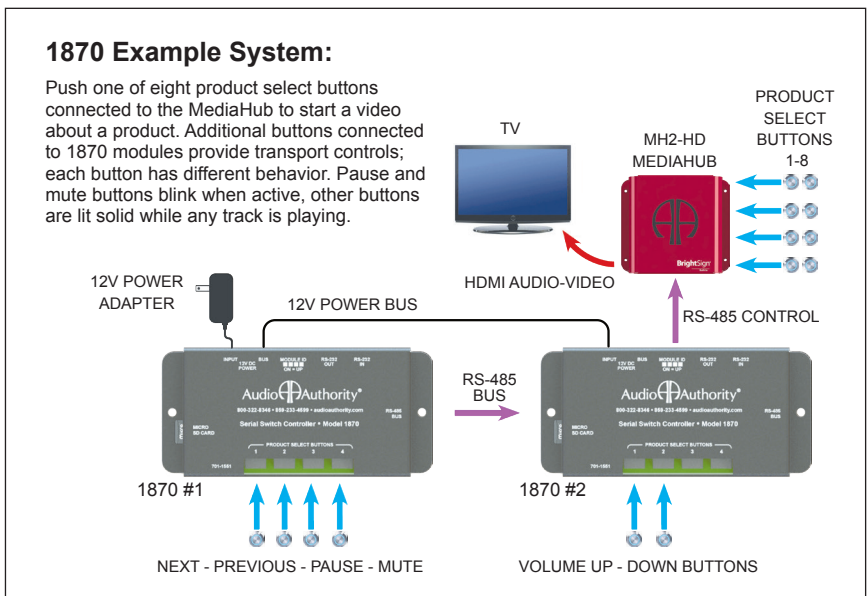
Connect the 12V 1.5A power adapter (included) to the jack marked Power input. The Power Bus port may be connected to an Audio Authority device, and/or up to seven 1870 modules may be linked together and powered via the RS-485 pathway. With all buttons lit, each 1870 draws 200mA.

Installation

- Attach the player and the 1870 modules to a flat surface with the screws provided.
- Connect RJ9 style push-buttons.
- Set the Module ID switches and mark the case for identity.
- Connect the RS-232 cable from the 1870 to a compatible media player.
- Connect the power supply to AC power, then to the 1870 power port.
- Call Audio Authority with questions that are not addressed in this manual.

Operation

On power up, the demo push-buttons are lit solid. When the demonstration is active, the current demonstration push-button blinks, all others are dark.



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