User Manual

Model 1807
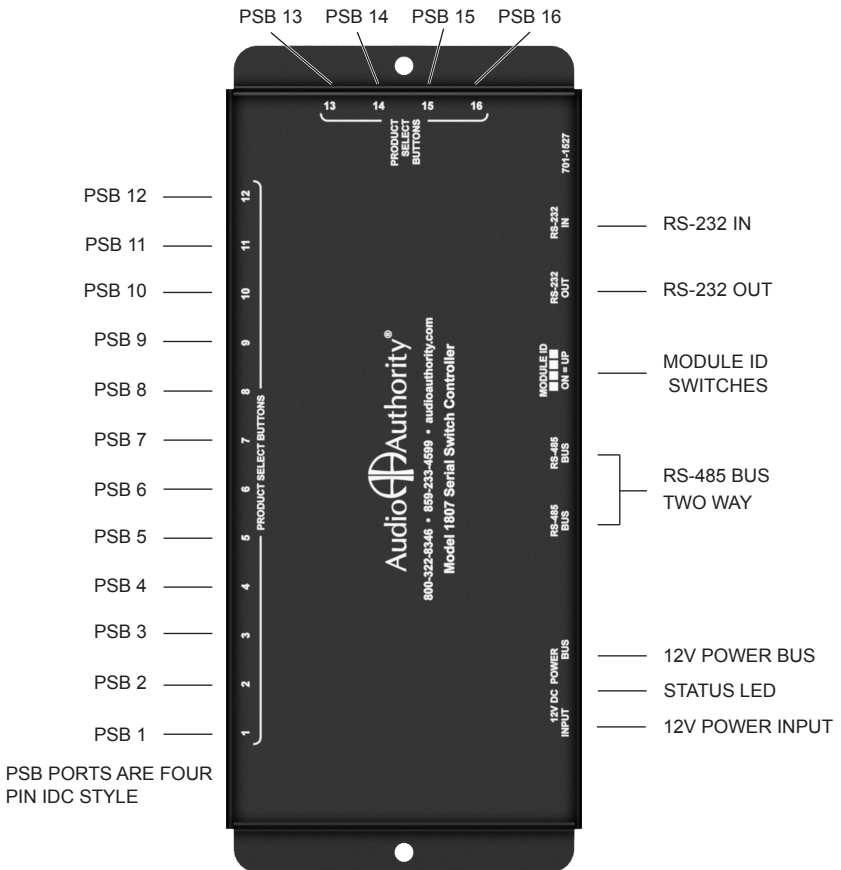### Serial Switch Controller

Audio AD Authority®

Model 1807 Serial Switch Controller

The Audio Authority® 1807 Serial Switch Controller provides a flexible way to control a compatible mediahub, such as an Audio Authority MH2-HD, with up to 16 push-buttons. The 1807 also interfaces with Audio Authority TouchSelect™ panels. Each 1807 controls sixteen push buttons and may be expanded to 256 positions. Push-buttons may be used for product selection or other commands (*see page 4*).

COMPATIBLE WITH
AUDIO AUTHORITY
MEDIAHUBS

PSB 13   PSB 14   PSB 15   PSB 16

PSB 12

PSB 11

PSB 10

PSB 9

PSB 8

PSB 7

PSB 6

PSB 5

PSB 4

PSB 3

PSB 2

PSB 1

PSB PORTS ARE FOUR
PIN IDC STYLE

RS-232 IN

RS-232 OUT

MODULE ID
SWITCHES

RS-485 BUS
TWO WAY
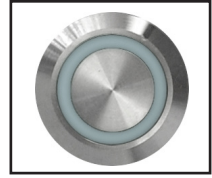
12V POWER BUS

STATUS LED

12V POWER INPUT

Package Contents

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

- 1807 Serial Switch Controller
- DC power adapter

Button Control Functions

Demonstration is controlled by push-buttons. Push-button behavior such as LED blink, LED lit solid etc. are assigned by serial commands to each button press (*see page 4*).

Buttons are available in several styles and colors.

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. Special RJ-45 cables are available from Audio Authority; RJ-45 to 3.5mm, PN: 801-373 and RJ-45 to DB-9 cable, PN: 801-252.
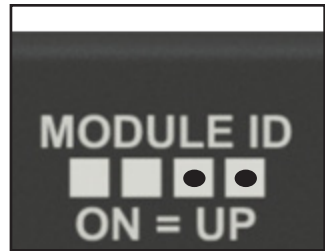
RS-485 Communication Bus

The RS-485 communication pathway links multiple 1807 modules (*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 1807 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.

Serial Commands

STRUCTURE	COMMAND	RESULT
[PRESS#_#]	[PRESS1_1]	Notify Main Controller PSB 1 pressed on unit1.
[RELEASE#]	[RELEASE1]	Notify Main Controller PSB 1 released on unit 1.
[BLINK#_#]	[BLINK10_3,5,6]	Blinks selected PSB position(s) on unit 10.
[LEDON#_#]	[LEDON2_1,3,7]	Activates selected LED(s) on unit 2.
[LEDOFF#_#]	[LEDOFF2_1,3,7]	Deactivates selected LED(s) on unit 2.
[LEDALLOFF]	[LEDALLOFF]	Turn off all LEDs on all units.

Power

Connect the 12V power adapter (included) to the jack marked Power Input. The Power Bus port may be connected to the 1704, or other device sharing the power supply. The status LED blinks to indicate normal operation.

STATUS LED

Installation

- Attach the player and the 1807 modules to a flat surface with the screws provided.
- Connect push-buttons to four-pin PSB ports, they can be illuminated (2-5 volt LED).
- Set the Module ID switches and mark the case for identity.
- Connect multiple 1807 modules via Cat 5/6 using the RS-485 ports.
- Connect the RS-232 cable from one 1807 to a compatible media player.
- Connect the power adapter to AC power, then to the 1807 power port.
- Call Audio Authority with questions that are not addressed in this manual.