

# User Manual

## Model 1821 Digital Audio Demonstrator



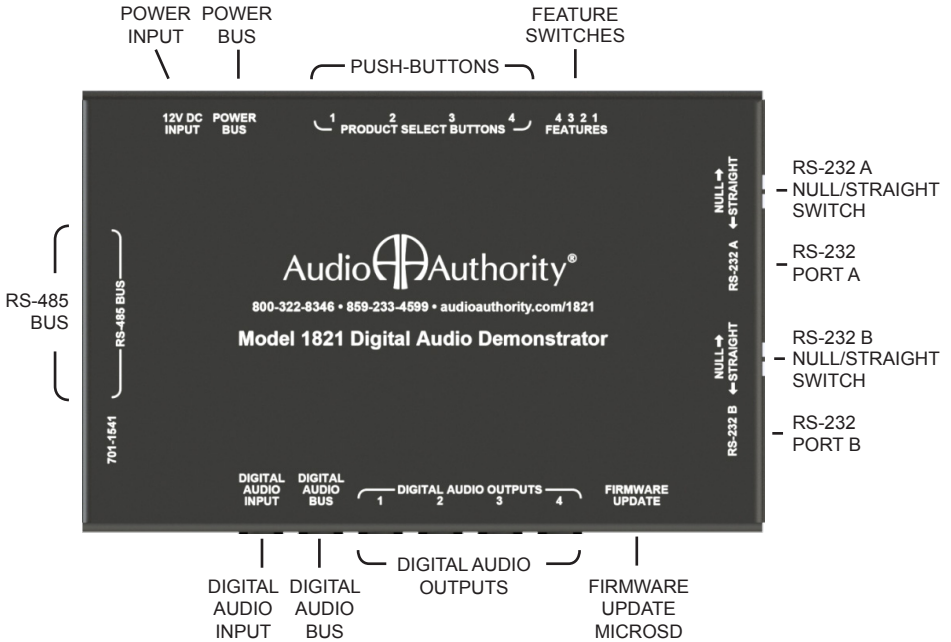
Audio  Authority®

# Introduction

The Audio Authority® 1821 delivers digital audio to four devices such as A-V receivers or sound bars. It provides digital Toslink® connections for input, bus output (for expansion capabilities), and four product outputs. In distribution mode, all outputs are active. In switching mode, outputs may be selected via push-buttons, TouchSelect panels, or compatible RS-232 control device.

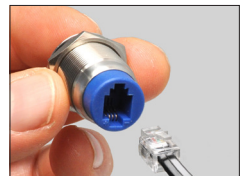
## Features

- Digital audio switching for four output positions
- Distribution mode: one in, four out, all positions active
- Digital audio bus output, always active
- RS-485 control (compatible touch panels sold seperately)
- RS-232 control



## Push-Buttons

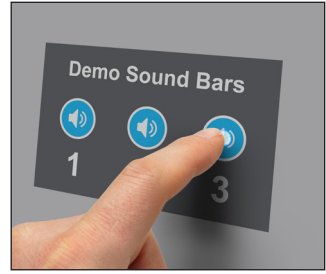
To use push-buttons for product selection, connect RJ9 style Easy Plug switches to each position. Push-buttons and cables in several colors and lengths are available from Audio Authority.



Easy Plug push-button with RJ9 connector (PN 013-100).

## RS-485 Bus and TouchSelect Panels

TouchSelect panels may be used to select product positions. TouchSelect panels transmit the touch location and panel address over the bus to the 1821. By default, button commands match up with the TouchSelect touch positions, therefore TouchSelect position 1 triggers the command for output 1.



Example of a custom overlay for a touch panel (TS04 sold separately).

## RS-232 Ports

The RS-232 Baud rate is 57600 and each port may be set for Null or Straight using the switch located beside each RS-232 port (A & B). By default Port A is set to null modem, and Port B is set to straight modem. The ports are modular RJ-45 jacks; adapter cables are available for 3.5mm or DB-9 serial ports.

## Switch Settings

Choose the desired features and select using the Feature Switches as shown. If a switch is shown with a dash, it can be ON or OFF while using the feature. After making changes to the Feature Switches, cycle power to the 1821.

### Timeout Mode

When Switch 1 and/or 2 is ON, the demo ends after a period of inactivity. The timeout interval is the amount of time after the last button press until the demo ends and attract mode begins. Adjust the length of the timeout interval using the settings below. The demo never stops playing when all switches are OFF.

TIMEOUT SWITCH SETTINGS:

MINUTES	1	2	3	4
NONE	OFF	OFF	OFF	-
ONE	OFF	ON	OFF	-
TWO	ON	OFF	OFF	-
THREE	ON	ON	OFF	-

### Distribution Mode

When Switch 3 is ON the 1821 functions as a distribution amplifier (*the demo never times out in DA mode*). In DA Mode, all audio positions are active.

DA MODE SWITCH SETTINGS:

	1	2	3	4
ACTIVE	-	-	ON	-
INACTIVE	-	-	OFF	-

## Digital Audio Input / Outputs

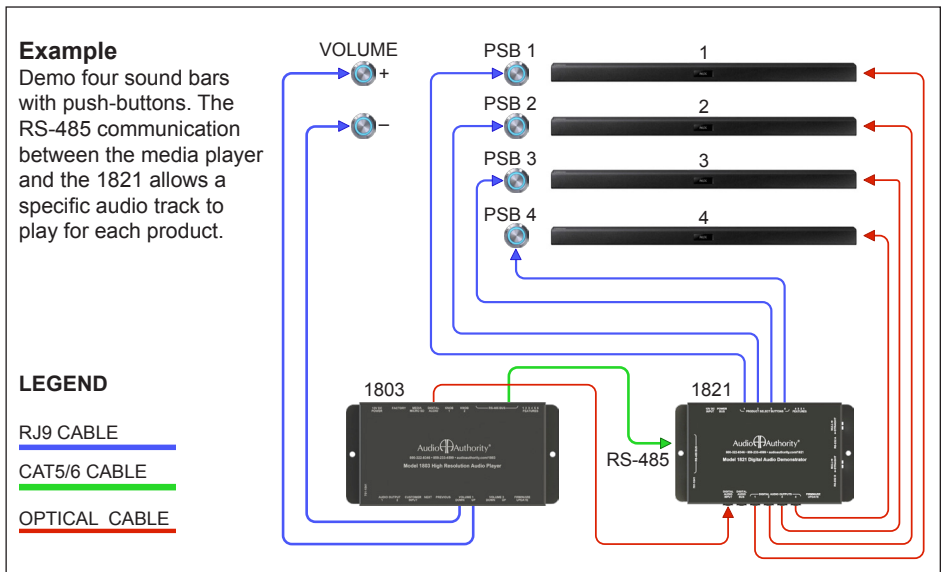
Connect an optical cable from the audio source to the Digital Audio Input of the 1821. An optical cable can be routed from the Digital Audio Bus connector to an additional 1821 or other device. Connect an optical cable from each of the Digital Audio Outputs to each sound bar or AVR.

## 12V DC Power

Connect 12V power adapter to Power Input. The Power Bus port may be connected to the 1803, or other device sharing the power adapter provided the power supply is adequate.

## Installation

- Attach the 1821 to a flat surface with the screws provided.
- Connect push-buttons, if used.
- Connect RS-485 cable from the 1821 to touch panel, if used.
- Connect RS-232 cable from the 1821 to the control device if applicable.
- Connect a digital audio source to the 1821.
- Connect digital audio output cables from the 1821 to product inputs.
- Connect power adapter to AC power, then to the 1821 power port.



Audio  Authority®

2048 Mercer Road, Lexington, KY 40511-1071 USA  
800-322-8346 • 859-233-4599 • Fax: 859-233-4510  
support@audioauthority.com • www.audioauthority.com

752-743  
Rev. 20180731