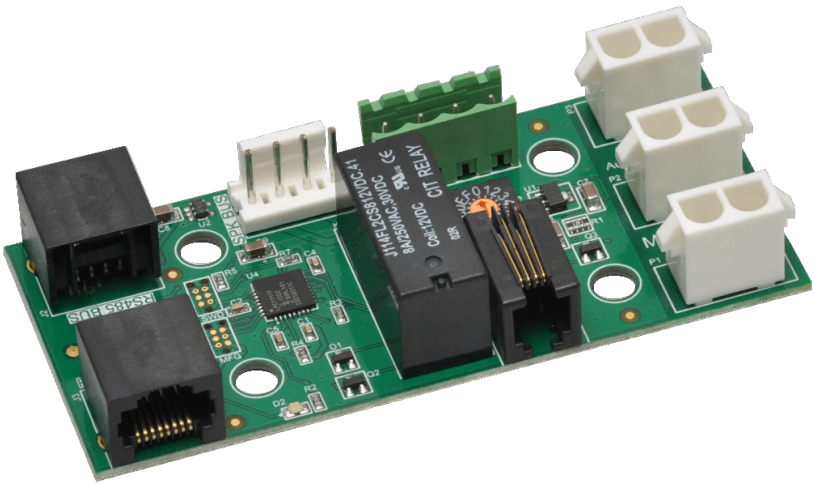# User Manual

Model 1819
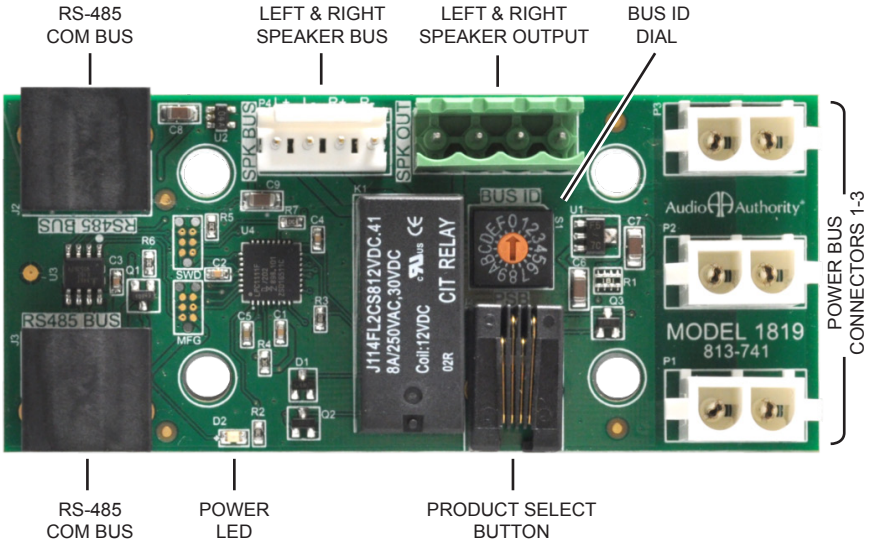### Serial Stereo Bus Switch

Audio AAuthority®

Introduction

The Audio Authority® 1819 is a high-level, single position stereo speaker switch designed to demonstrate a pair of speakers in retail demonstrations. Connect a high resolution audio player such as the Audio Authority Model 1803 or any compatible media player such as a BrightSign® XD3 (custom programming required), and an 1805 amplifier to provide speaker power.

COMPATIBLE WITH BRIGHTSIGN MEDIA PLAYERS

- Timeout after 90 seconds
- Coordinates with other devices such as media players and lighting modules
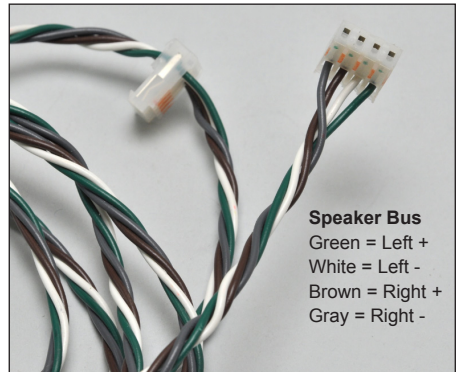- Power bus for passive head unit display

RS-485 COM BUS

LEFT & RIGHT SPEAKER BUS

LEFT & RIGHT SPEAKER OUTPUT

BUS ID DIAL

POWER BUS CONNECTORS 1-3

RS-485 COM BUS

POWER LED

PRODUCT SELECT BUTTON

Speaker Bus Input

Connect the speaker bus harness to the left and right speaker outputs of a model 1805 or equivelant amplifier. Plug the speaker bus connector to the speaker bus port of the 1819, repeat for each additional 1819.

Speaker Output

Connect the left and right speakers to the speaker output harnesses and plug the connector to its designated L/R 1819 speaker port, repeat for each additional pair of 1819 modules.

Speaker Bus
Green = Left +
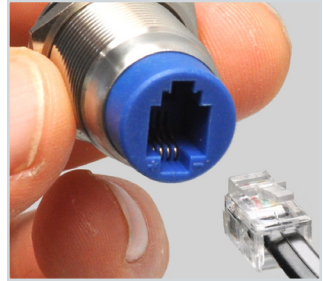White = Left -
Brown = Right +
Gray = Right -

The continuous speaker bus provides left and right audio signals for easy installation.

Push-Buttons

Illuminated stainless steel momentary switch
selects the product to be demonstrated. Pressing
the push-button of a different product deselects the
previous selection and resets the fixed timeout.

RS-485 Communications Bus

The demonstration is activated by a
push-button press and communicated via the
RS-485 Communications Bus to the other
devices on the bus so that only one speaker
position is active at a time.

The Easy Plug RJ9 connector
push-button shown, several colors
are available upon request.

Bus ID Dial

Assign each 1819 a unique ID so that multiple switch modules
may operate on the serial bus. Up to 16 unique ID addresses are
possible. After making changes to a module's
Bus ID, cycle power to the 1819 modules.

BUS ID DIAL

Timeout

The timeout interval, 90 seconds, is a fixed amount of time after the last button
press, the demo ends and the system returns to standby.

Power

Power is provided over the RS-485 bus from a host device, such as
the Model 1805 amplifier. Larger systems may have power provided by an
external power adapter connected to an open RS-485 port with an adapter
cable (PN 801-408).
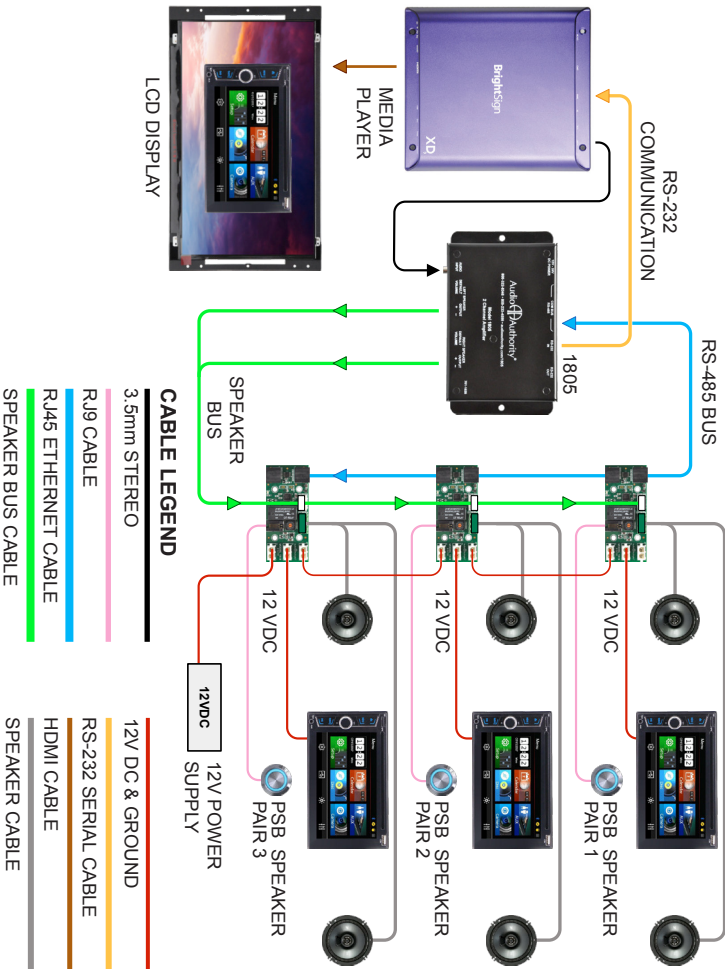
Isolated 12V Power Bus

Power bus (*shown left*) provides 12V power and a ground connection for a car
stereo head unit when used in conjunction with an external power supply.

Installation

- Attach each 1819 to a flat surface with the screws provided.

- Install product select buttons.

- Set a unique ID for each speaker or speaker pair (two speakers with 1819
  modules set to the same ID activate together).

- Connect speaker terminals to speakers securely.

- Connect the amplifiers speaker outputs to the speaker bus cable securely.

- Connect Cat5/6 Ethernet cable terminated to T568A standard to the
  RS-485 bus connections on each 1819 and to the host device.

- Connect power adapter (571-043) to AC power, attach the power adapter cable
  (801-408) and connect to a vacant RS-485 port if necessary.

- Connect an external power supply to AC power, attach +12V and GND to Power
  Bus connectors and connect to car head units as needed.

Example

An audio demonstration with three speaker pairs and three silent head units. The 1819 provides an isolated 12 volt bus to power each head unit (other power connections are not shown). The serial communication between the media player and the 1805 triggers a custom video track to play when each product is selected.

LCD DISPLAY

MEDIA PLAYER

RS-232 COMMUNICATION

RS-485 BUS

1805

SPEAKER BUS

CABLE LEGEND

3.5mm STEREO

RJ9 CABLE

RJ45 ETHERNET CABLE

SPEAKER BUS CABLE

12V DC & GROUND

RS-232 SERIAL CABLE

HDMI CABLE

SPEAKER CABLE

12 VDC

12 VDC

12 VDC

12VDC

12V POWER SUPPLY

PSB SPEAKER PAIR 3

PSB SPEAKER PAIR 2

PSB SPEAKER PAIR 1