User Manual

Model 1818
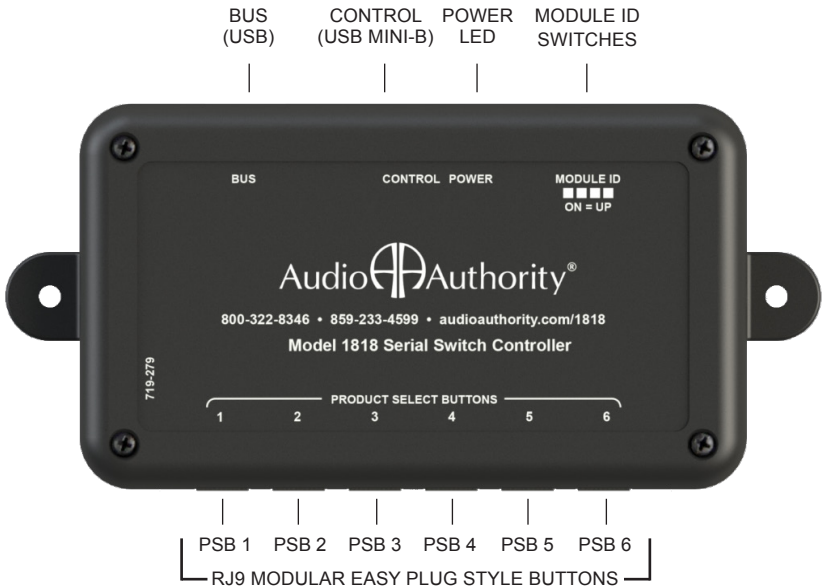### Serial Switch Controller

AudioAuthority®

Model 1818 Serial Switch Controller

The Audio Authority® 1818 Serial Switch Controller provides a flexible way to control a compatible media player, such as a BrightSign® Model LS423 using illuminated push-buttons. Each 1818 controls six push-buttons and may be expanded to 96 positions. Push-buttons may be used for product selection or other commands (*see page 4*).

COMPATIBLE WITH BRIGHTSIGN® MEDIA PLAYERS

BUS (USB)   CONTROL (USB MINI-B)   POWER LED   MODULE ID SWITCHES

PSB 1   PSB 2   PSB 3   PSB 4   PSB 5   PSB 6

RJ9 MODULAR EASY PLUG STYLE BUTTONS

Button Control Functions

Demonstration is controlled by Easy Plug 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*). Push-buttons are available in several colors.
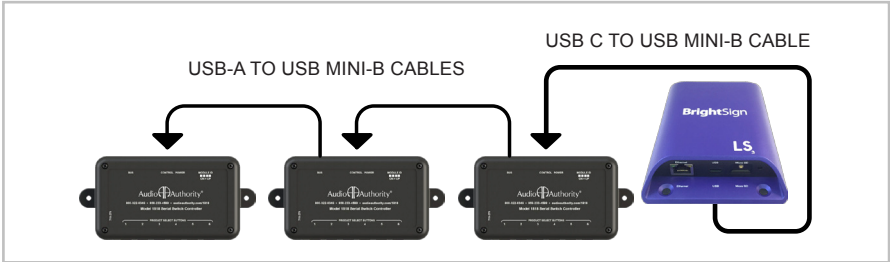

Model 013-100 Easy Plug Push-Button with RJ9 connector.

Control Serial Port (USB Mini-B)
The USB Mini-B port connects to any compatible USB device at a 9600 Baud rate.

USB Communication Bus
The USB communication pathway links multiple 1818 modules (*see Module ID below)*.

USB C TO USB MINI-B CABLE

USB-A TO USB MINI-B CABLES

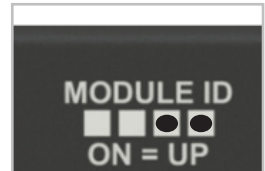Three 1818 units linked to host player.

Power
The 1818 is powered from the host device via USB cable connected to the USB Mini-B port marked Control.

Module ID Switches
The Module ID switches 1-4 are off by default (UNIT 1). To set the Module ID for more than one 1818, follow the chart below and mark the case as shown.

Address for unit 4 marked on the case.

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

Serial Commands

STRUCTURE	EXAMPLE	RESULT
[PRESS#_#]	[PRESS1_1]	Notify Main Controller PSB 1 pressed on unit 1.
[RELEASE#]	[RELEASE1]	Notify Main Controller released on unit 1.
[BLINK#_#]	[BLINK10_3,5,6]	Blink selected PSB positions on unit 10.
[LEDON#_#]	[LEDON2_1,3,7]	Activate selected LEDs on unit 2.
[LEDOFF#_#]	[LEDOFF2_1,3,7]	Deactivate selected LEDs on unit 2.

Installation

- Attach the player and the 1818 modules to a flat surface with the screws provided.
- Connect push-buttons. Push-buttons should be EasyPlug (RJ9) momentary switches.
- Connect multiple 1818 modules via USB-A using the Bus ports.
- Set the Module ID switches and mark the case for identity.
- Connect the USB Mini-B cable from one 1818 to a compatible media player.
- Program the player for desired button behavior.
- Call Audio Authority with questions that are not addressed in this manual.