

User Manual

AS8 Series Audio Demonstrator



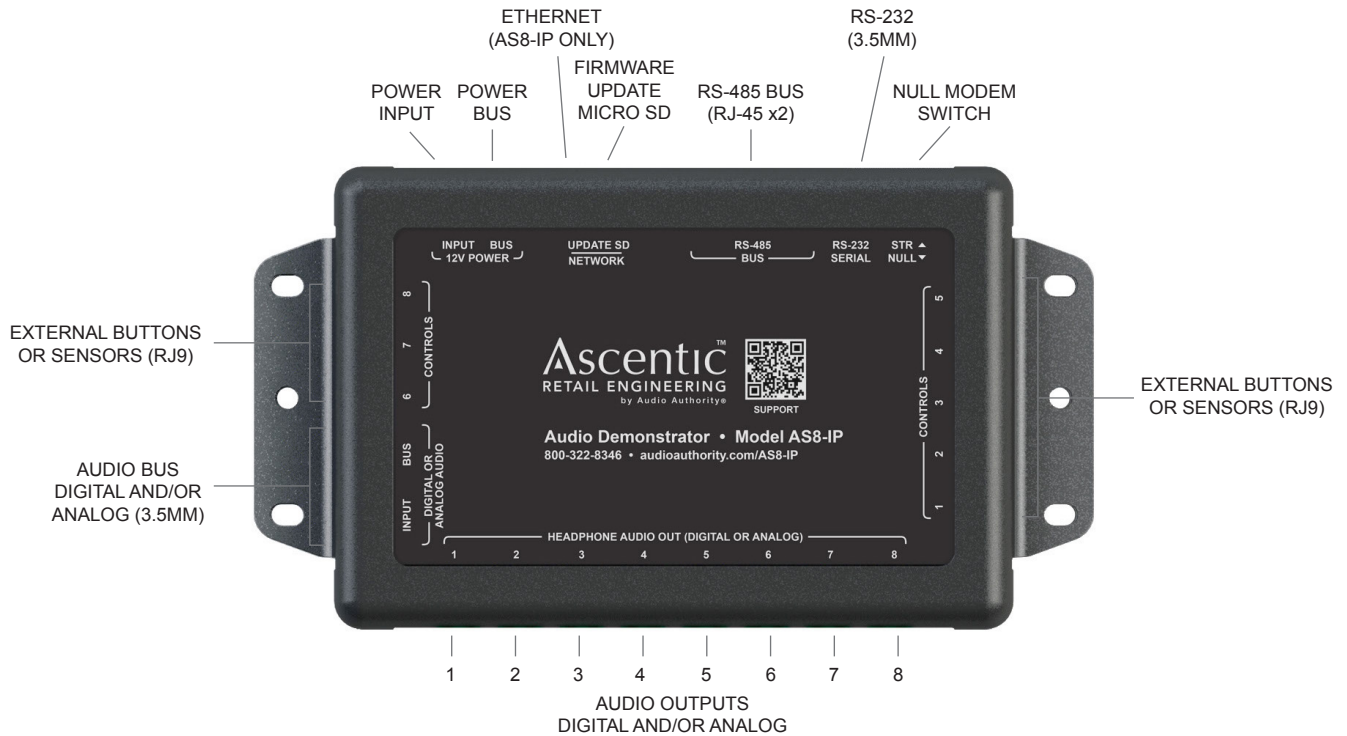
AscenticTM
RETAIL ENGINEERING
by Audio Authority®

Introduction

The Ascentic AS8 Audio Demonstrator switches audio signals for up to eight outputs, either digital audio, analog, or a combination of audio formats. The AS8 series includes the AS8 and the Ethernet-enabled AS8-IP. The AS8 may be controlled via buttons, sensors, touch panels, touchscreen, and multi-function rotary controls, and can be updated, checked, and controlled remotely via serial or Ethernet connections.



Compatible with Ascentic MediaHubs



Inputs and Outputs

- Standard Inputs: microSD card, 1x analog audio in (3.5mm), 1x digital audio in (3.5mm)
- Optional Inputs: Ethernet port (RJ-45 IP version only)
- Standard Outputs: 8x Analog/Digital Combination 3.5mm Jack, 1x Analog or digital audio bus (3.5mm)
- Standard In/Out: 1x RS-232 port (3.5mm), 2x RS-485 Bus ports (RJ-45), 8x RJ9 for external controls
- Indicators: 1x green power indicator, 1x yellow status indicator

Power Input Specification

- Power Entry Port: 2x barrel jack connectors (5.5 x 2.1mm, bussed)
- Voltage: 12V DC
- No-Load Current: AS8: 104mA, AS8-IP: 165mA

Mechanical Details

- Case Type: Ascentic universal case, molded ABS
- Case Dimensions (in, WxLxH): 7.5 x 4.1 x 1.5, (mm, WxLxH): 190 x 104 x 38
- Mounting Locations: molded flanges
- CAD Drawing: available on request

Communication

- Device ID: 6
- IP Card ID: 254
- RS-485 Protocol: 57600 Baud, 8-N-1, half-duplex
- RS-232 Protocol: 115200 Baud, 8-N-1, full-duplex
- Modem Configuration: Null/Straight toggle via latching button
- Null = switch depressed
- Straight = switch released

3.5mm TRS jack pinout

- Tip = RX or TX (STR vs NULL)
- Ring = TX or RX (STR vs NULL)
- Sleeve = ground

Serial Commands:

Command	Format	Response
DEVICE ID	[DEV=%;DEV=#]	
DEVICE ID	[DEV=%;DEV?]	(DEV=6;DEV=57600)
REBOOT	[DEV=%;REBOOT]	
BAUD RATE	[DEV=%;PORT=#;BAUD=\$]	
LED ON	[DEV=%;LED=#;ON]	
LED OFF	[DEV=%;LED=#;OFF]	
LED BLINK	[DEV=%;LED=#;BLNK]	
OPTICAL ON	[DEV=%;OPTICAL=#;ON]	
OPTICAL OFF	[DEV=%;OPTICAL=#;OFF]	
ANALOG ON	[DEV=%;ANALOG=#;ON]	
ANALOG OFF	[DEV=%;ANALOG=#;OFF]	
BUTTON PRESS		(DEV=6;BTN=8;PRESS)
BUTTON RELEASE		(DEV=6;BTN=8;RELEASE)
AMP LEVEL	[DEV=%;ANALOG;AMP?]	DEV=6;ANALOG;AMP=57600)
AMP LEVEL	[DEV=%;ANALOG;AMP=\$]	
SERIAL NUMBER	[DEV=%;CFG;SERNUM?]	(DEV=6;CFG;SERNUM=8)
RESET DEFAULTS	[DEV=%;RESET;DEFAULT]	
UP COUNT	[DEV=%;UP;COUNT?]	(DEV=6;UP;COUNT=57600)
UP TIME	[DEV=%;UP;TIME?]	(DEV=6;UP;TIME=57600)
OPTICAL ALL ON	[DEV=6;OPTICAL=*;ON]	
OPTICAL ALL OFF	[DEV=6;OPTICAL=*;OFF]	
ANALOG ALL ON	[DEV=6;ANALOG=*;ON]	
ANALOG ALL OFF	[DEV=6;ANALOG=*;OFF]	

Troubleshooting

No RS-232 communication:

- Are connectors fully seated?
- Are devices using the correct protocol settings?
- Toggle the Null/Straight switch.

No audio:

- Are connectors fully seated?
- Select the correct position via software.
- Play audio from a known source device.
- Ensure switched audio type is available and desired.

Application Example

Switch between multiple audio outputs to analog, digital, or devices of mixed signal types. In this case, sound bars can be connected to the AS8 with optical or analog 3.5mm cables. The signal type for each output is selected via software. The RS-485 Bus accepts a variety of signals, including transport control commands from a TS04 touch panel, relayed to the player via RS-232. System health and user data may be logged via the Network connection (AS8-IP only). An LED control module (LM8-12) lights an LED strip when a sound bar is selected, indicating product selection.



VIDEO DISPLAY

