SonaFlex™ SERIES

SF-16 FEATURES:

- The perfect companion to ADX and HLX audio matrix switchers - audio connections can be made in seconds using the included quick-connect DB25 cable

- 8 stereo/16 mono RCA inputs for connection of standard audio sources or third-party whole-house audio systems

- 2 Cat5 wall plate inputs accept optional stereo RCA, mono balanced and paging mic audio wall plates (sold separately)

- Audio wallplates can be located up to 1,000 feet away and include provisions for amp channel audio override and IR pass-through

- Override feature provides special functions such as paging capabilities, local source selection, and room combining

- 16 high-power speaker outputs (60W @ 8 Ohms) which can be assigned any direct, bus or Cat5 input as stereo or mono

- 10 preset sound scenes, which can be saved and recalled using IR, RS-232 or IP commands - ideal for quick recall of volume settings in standalone SF-16 applications

- DB25, Cat5 audio, IR and RS-232 loop outs for daisy chaining up to four SF-16 amplifiers (64 outputs total)

- Open control architecture allows any IR, RS-232 or IP based controller to adjust volume, muting, audio override, and sound scenes

- Full front panel control and setup via touch panel and simple rotating multi-function knob

- 3U rack mount ears included

Compatible Cat5 Audio Wall Plates

STEREO RCA
Model RA-U

BALANCED
Model RA-B

PAGING STATION
Model RA-PM

Flexible Applications, Robust Audio Performance

Audio Authority's SonaFlex SF-16 is a unique blend of multi-channel amplification, flexible audio routing, and open control capability. Built and designed in the U.S. with the custom installer in mind, the SF-16 brings a new approach to common residential and commercial distributed audio applications. With its numerous input/output configurations, the SF-16 can be as simple or advanced as you need it to be.

Remote wall plates, designed to accept consumer and pro audio sources such as iPods, microphones, audio mixers, and paging microphones, connect to two Cat 5 inputs on the SF-16. Wall plates can be located up to 1,000 feet away from the SF-16 and include provisions for amp channel override and IR pass-thru for control.

Connections to Audio Authority's ADX and HLX audio matrix switchers couldn't be simpler. Using the included quick-connect DB25 cable, source audio connections are completed in minutes instead of hours. When standard audio sources or third-party whole-house audio systems are required, the SF-16 also includes eight stereo RCA inputs.

Other unique features include 10 programmable volume presets, as well as control of all SF-16 presets, channel volume, muting and audio override from virtually any IR, RS-232 or IP based controller.

SF-16 Installation Applications:

WHOLE-HOUSE AUDIO WITH LOCAL SOURCE OVERRIDE

RCA Audio Outputs

Audio Sources X 8

RCA Audio Inputs

DB25 Audio Output

ADX-0808 Multi-Zone Audio Switcher

DB25 Audio Input

SF-16 16-Channel Digital Amplifier

MASTER BEDROOM
RCA Audio Wall Plate
CH 1-2
TV Audio
RA-U

KITCHEN
RCA Audio Wall Plate
CH 3-4
MP3 Audio
RA-U

ZONES 3-8
CH 5-16

HOW LOCAL SOURCE OVERRIDE WORKS:
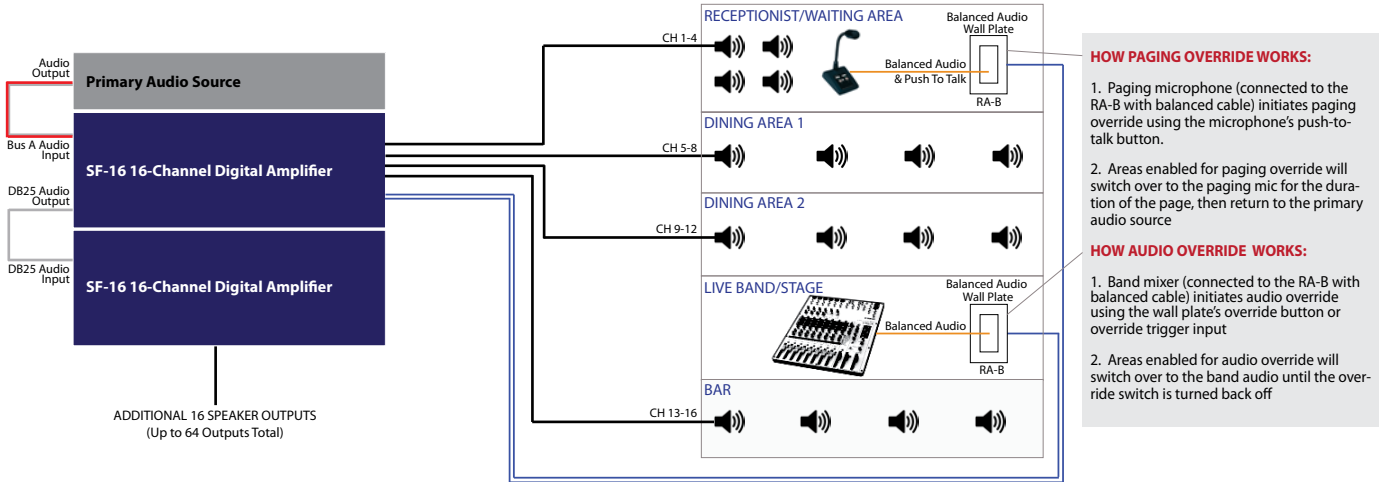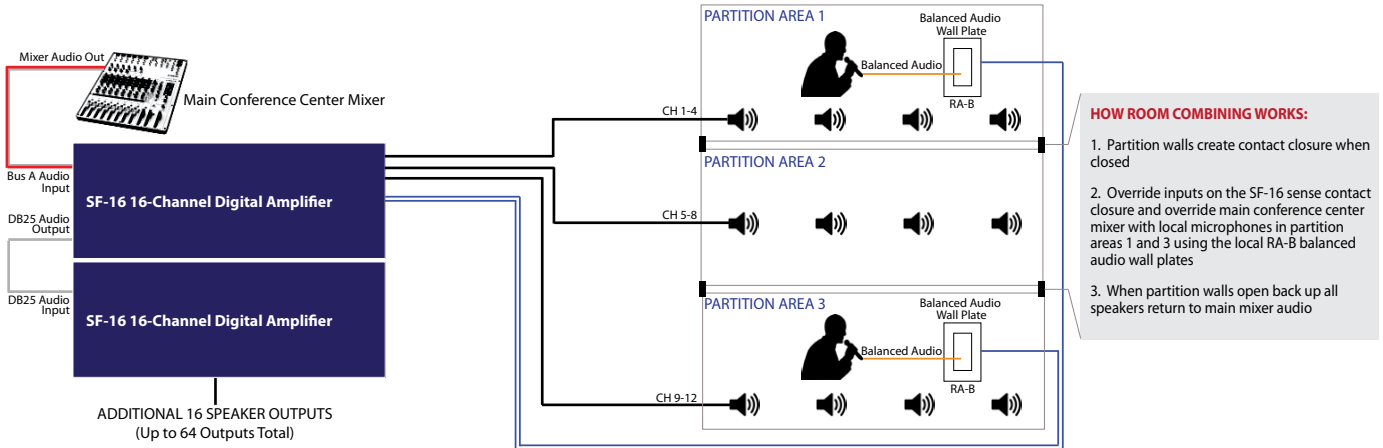
1. 3rd party IR, RS-232 or IP based controller sends input specific "override on" command to the SF-16, initiating a local source override

2. Override remains active until an "override off" command is received by the SF-16, which returns the zone audio back to its primary audio input

RESTAURANT/BAR/HOSPITALITY - AUDIO DISTRIBUTION & PAGING

Audio Output

Primary Audio Source

Bus A Audio Input

SF-16 16-Channel Digital Amplifier

DB25 Audio Output

SF-16 16-Channel Digital Amplifier

DB25 Audio Input

ADDITIONAL 16 SPEAKER OUTPUTS
(Up to 64 Outputs Total)

RECEPTIONIST/WAITING AREA
Balanced Audio Wall Plate
CH 1-4
Balanced Audio & Push To Talk
RA-B

DINING AREA 1
CH 5-8

DINING AREA 2
CH 9-12

LIVE BAND/STAGE
Balanced Audio Wall Plate
Balanced Audio
RA-B

BAR
CH 13-16

HOW PAGING OVERRIDE WORKS:

1. Paging microphone (connected to the RA-B with balanced cable) initiates paging override using the microphone's push-to-talk button.

2. Areas enabled for paging override will switch over to the paging mic for the duration of the page, then return to the primary audio source

HOW AUDIO OVERRIDE WORKS:

1. Band mixer (connected to the RA-B with balanced cable) initiates audio override using the wall plate's override button or override trigger input

2. Areas enabled for audio override will switch over to the band audio until the override switch is turned back off

CONFERENCE CENTER/HOUSE OF WORSHIP - ROOM COMBINING

Mixer Audio Out

Main Conference Center Mixer

Bus A Audio Input

SF-16 16-Channel Digital Amplifier

DB25 Audio Output

SF-16 16-Channel Digital Amplifier

DB25 Audio Input

ADDITIONAL 16 SPEAKER OUTPUTS
(Up to 64 Outputs Total)

PARTITION AREA 1
Balanced Audio Wall Plate
CH 1-4
Balanced Audio
RA-B

PARTITION AREA 2
CH 5-8

PARTITION AREA 3
Balanced Audio Wall Plate
CH 9-12
Balanced Audio
RA-B

HOW ROOM COMBINING WORKS:

1. Partition walls create contact closure when closed

2. Override inputs on the SF-16 sense contact closure and override main conference center mixer with local microphones in partition areas 1 and 3 using the local RA-B balanced audio wall plates

3. When partition walls open back up all speakers return to main mixer audio

SF-16 SPECIFICATIONS:

Continuous Power Per Channel (RMS): . . . . . . 60W @ 8 Ohms, 80W @ 4 Ohms
Frequency Response . . . . .20Hz to 20kHz, +/-3db into 8 Ohms
Full Power Bandwidth . . . . 20Hz to 20kHz
S/N Ratio 96dB
Channel Separation . . . . .70dB(channel to channel @1kHz)
Total Harmonic Distortion . . . . 0.05% THD+N at full power
Intermodulation Distortion 0.05%

Input Impedance . . . . .10k Ohms
AC Power Requirements 1200W
Current Draw . . . . 10A RMS
Heat Output . . . . 38/68 BTU/hr
Dimensions (H x W x D) . . . . 5.22" x 16.60" x 14"
Warranty . . . . .One year, parts and labor

ADX-1616 Audio Matrix

FEATURES:

- Sixteen source input / sixteen zone output (ADX-1616) or eight source input / eight zone output (ADX-0808) matrix switcher
- Ethernet, RS-232 Serial and IR (Front & rear panel) control
- Integrates seamlessly with third party control systems from Control4, URC, RTI and more
- IR and RS-232 codes available for use with virtually any third party control system
- Full front panel control with unique capacitive touch surface and simple rotating multi-function knob
- Custom settings *per zone*: 10-band EQ, Tone (Bass/Treble) and Balance
- Zone grouping (10 groups) and Source/Zone combination presets (10 source/zone combinations)
- Global source selection (switch all zones to same source)
- Front panel lockout
- Simple PC-based setup via Ethernet, serial or USB drive
- 2U rack mount ears included

A Powerful Tool For Your AV Arsenal

Affordable, integration-friendly, and an audio lover's dream! With ground-breaking DSP capabilities at a break-through price point, the ADX Series Audio Matrix Switchers truly belong in your next audio-video installation.

Featuring custom 10-band EQ control **per zone**, the ADX Series brings your customer new levels of audio performance and control. With remote two-way feedback and third party control of all DSP settings from any zone, you can now satisfy even the most discriminating audiophile.

Custom 10-band EQ Per Zone

Multiple Control Options

Virtually any control system or programmable remote can take full advantage of audio switching, EQ settings, zone grouping, lockout and more. Basic functions of the ADX Series Audio Switchers can be controlled with IR via 3.5mm and terminal connectors or via the IR receiver on the front.

Ethernet control via PC or other IP control system.

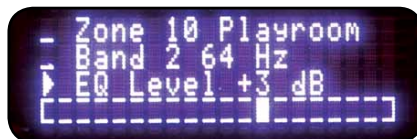RS-232 for standard serial control.

Standard 3.5mm IR jack or terminal connection.

Customizing ADX

ADX Series Audio Switchers are easy to install right out of the box with virtually no setup required for basic functionality. Using our simple PC setup software or front panel controls, integrators can quickly perform advanced setup tasks such as naming each source input and zone output for display on the front panel. "Favorites" can be designated for specific scenes, such as game night, party, or movie night. "Groups" are useful for such tasks as switching all downstairs zones to a certain source, for example. In addition, all settings can be backed up to a USB flash drive.

Audio Source Inputs
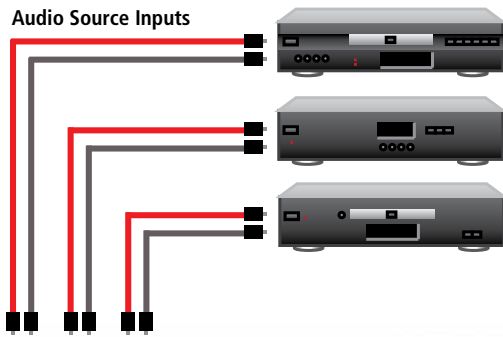
ADX™ / SONAFLEX™ SIGNAL FLOW:

The quick ADX DB-25 connector makes installation a snap with the new SonaFlex™ 16 channel amplifier by Audio Authority. The FlexPort wallplates are an easy way to override any zone's audio with a local source such as an iPod™ or game system.
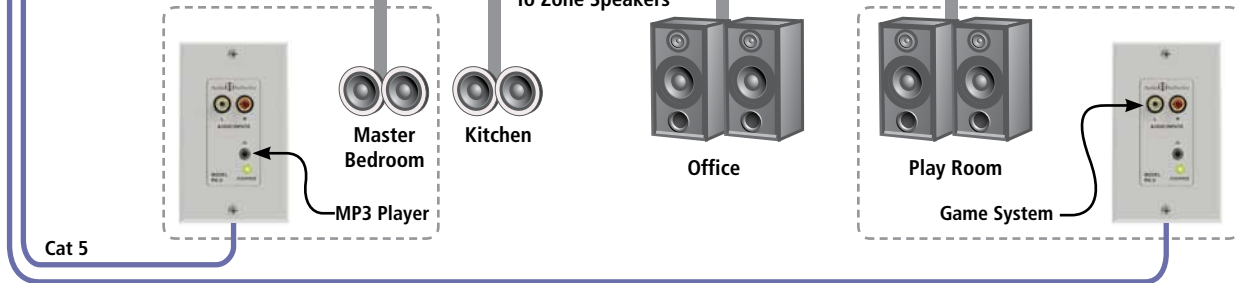
ADX-1616

ADX Zone Outputs 9-16 to SonaFlex™ Amplifier

SF-16 Amplifier

Speaker Outputs To Zone Speakers

Master Bedroom **Kitchen** **Office** **Play Room**

MP3 Player **Game System**

Cat 5

ADX-0808 / ADX-1616 SPECIFICATIONS:

Audio Inputs . . . . Left and Right RCA stereo
Input Impedance 100K
Minimum Load Impedance 10K
Frequency Response 10-25kHz
S/N Ratio 82dB
THD+Noise 0.02%
Crosstalk 85dB
Agency Approvals . . . . .FCC

DC Input Connector . . . . 5.5 x 2.1mm
DC Input Voltage/Polarity . . . . .18V/Center Positive
Max DC Input Current 600mA/1.1A
Power Supply 571-014/571-023
Heat Output . . . . 38/68 BTU/hr
Net Product Weight 9.9
Shipping Weight 11.4
Dimensions (H x W x D): . . . . 3.5" x 16.5" x 8.25"
Warranty . . . . .One year, parts and labor