



More Musicality...Less Complexity









the best choice when ordinary sound systems just won't do. Its streamlined installation process and rock-solid performance make it ideal to integrate with a third party automation system, or to use as a stand-alone audio system in homes, restaurants, clubs, and conference centers.

Warmth and musicality make SonaFlex

BARS & CLUBS

RESTAURANTS

MEETING ROOMS

HOMES

FEATURES:

- Audio matrix switching, signal processing and amplification in one system
- Easy setup using front panel controls, Windows® or Mac OSX Setup Utility
- Compatible with virtually any control system using Ethernet, serial, or IR commands
- Class-D amplification provides 50 watts per channel, all channels driven at 8 Ohms
- 16 analog RCA inputs combined with two Cat 5 "FlexPort" inputs = 20 mono/10 stereo inputs
- Optional Cat 5 FlexPort transmitters microphones, mixers, personal audio players, and digital sources
- 16 amplified outputs can be configured as mono, stereo, or a combination of stereo and mono
- Four SF-16M amps may be linked to function as a 64 output audio matrix, all sharing the 16 input channels
- DSP filters include hi- and low-shelf (Bass/Treble), hiand low-pass, and parametric EQ, per output
- Output groups, sound scene presets, and audio overrides provide custom functionality

Flexible Input Options

Any SonaFlex input can be mono or stereo, and with FlexPort™ audio transmitter wallplates, you can remotely connect sources like microphones, digital audio players, and mixers to the SF-16M, via Cat 5.

Up to four FlexPort audio transmitters can be connected to each SF-16M. FlexPort modules sport an illuminated button that may be used to trigger a local source to play on selected SF-16M speaker outputs.

Scalable Outputs

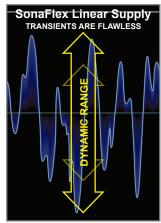
Each SF-16M can have a mixture of both mono and stereo speaker outputs. Mono inputs are digitally split

for stereo outputs and stereo inputs are digitally summed for each mono output. Up to four SF-16M units can be linked together to form a powerful 64 output system, with shared source signals and shared FlexPort signals.





Switching Supply PEAKS ARE CLIPPED









Pure, Stable, and Reliable Power

Using Class-D digital amplification, the SF-16M produces a conservatively rated 50 watts per channel, all channels driven, at 8 Ohms; stable at 4 Ohms. The SF-16M is so rock-solid that even if the output leads are shorted during installation, it safely shuts off the amplifier stage until the short is corrected, and then comes back on without a power cycle!

Floating Voltage Rail Extends Dynamic Range

Quite possibly the most impressive benefit of the SF-16M is its dynamic audio quality. Competing Class-D products that use switching power supplies, can't manage large transient peaks. A switching supply has a fixed voltage rail, so it clips transients, resulting in audible distortion. The SF-16M hybrid linear supply has the headroom to respond to musical dynamics, because its analog design allows its voltage rail to float, so it can respond to quick transient peaks in the music with extra power. The result is vibrant, accurate sound reproduction that your clients will enjoy and value.

Quality Front-End Components

The SF-16M features 24-Bit, 96-kHz Burr-Brown A/D conversion with 64-times oversampling, resulting in natural, accurate sound reproduction of the input source material.

Signal Processing Tools

The SF-16M provides a rich palette of Digital Signal Processing (DSP) tools that allow the installer to customtune every output for a specific sonic environment. For basic installations, use the bass, treble, balance, and loudness controls. For more advanced applications, use filters like hi-pass and low-pass or up to seven bands of parametric equalization per output. You can also combine other filters with parametric EQ to create precision settings for each output.

Multi-Channel Quick Connect

The SF-16M's DB-25 input allows quick connections when linking multiple amplifiers together, or for use with Audio Authority HLX and ADX audio matrix switchers. The built-in FlexPort audio inputs can still be used in pass-thru mode to override any on-board RCA audio input, enabling features such as local source selection, paging override, doorbell override, and room combining.









Easy Front Panel Setup

The SF-16M front panel display provides access to the most common settings required in a basic install. We've made it easy to operate stand alone installations from the front panel menu without third party control systems using multi-output Zones.

devices

the DB-25 cable.

Open Control Architecture

Control (4)

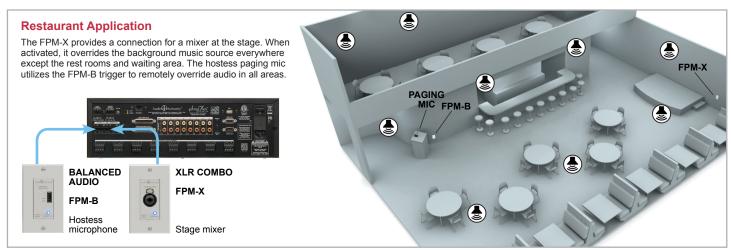
The SF-16M is compatible with virtually any control system using RS-232, Ethernet or IR commands. All the commands and IR codes are available on our website. Free drivers are available for download from www.audioauthority.com/sonaflex.

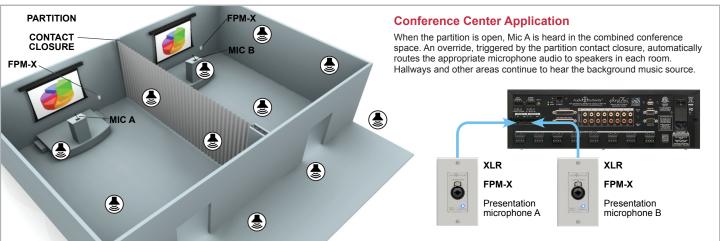
Easy Wiring

Install speakers while the amp is playing! Don't worry, if there is a short, the amp shuts that channel down until the short is cleared. You can install up to two 8 Ohm speakers in parallel on each of the 16 speaker outputs. Source inputs may be mono or stereo, including FlexPort inputs. FlexPorts are wired using standard Cat 5/6/7 cable with RJ-45 plugs.

IR CONTROL **USB FOR RS-232 SERIAL OVERRIDE** SYSTEM ETHERNET CONTROL TERMINALS TRIGGER **UPDATES** Use front panel or Serial control Robust IP connection Two contact Terminals for a for third-party control rear panel IR control. Update firmware systems are closures are power-saving Either one may be or load a system compatible systems includes rockdisabled using the available to device to turn setup file via via RS-232 solid firmware and sturdy Setup Utility. USB flash drive. trigger overrides. power on and off. commands. iack hardware. Audio Øona IN OUT CAUTION + - + -FlexPort TRANSMITTERS SOURCE INPUTS **TECH TIPS SPEAKER TERMINALS** Got a question? Scan the Four different Connect RCAs, Short-protected OR code to download the models offer or if you are using multiple SF-16M compatability with terminals allow technical documents, drivers, or software you need. amps together, use a variety of source installation while

the amp is playing.

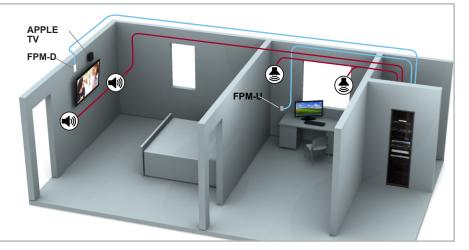






The FlexPort FPM-U and FPM-D modules accept analog or digital inputs for sources located in the zones. An Apple TV located behind a display can send audio to the local in-wall speakers, or to every speaker on the premises.





SPECIFICATIONS

Power Per Channel (All Channels Driven):
S/N Ratio:
Channel Separation: 70dB (channel to channel @1kHz)
THD+N:
IMD:
Input Sensitivity:
Input Impedance:

Output Protection: Short Circuit, Over-Temperature, Overload
Line Voltage & Frequency:
Power Consumption:
AC Power Requirements:
Maximum Current Draw:
Heat Output:
Dimensions (H x W x D):
Net Weight / Shipping Weight:
Approvals
Warranty: Three years, parts and labor

