IT-AS411 Series

4x1 Audio Switching with Voice Lift Mixing

FSR
Audio Products Group

The IT-AS411 Series Audio Switchers are 4x1 audio switchers that have an extra mic/line level input for a voice lift system or direct microphone input. All models have four switched program audio inputs and an independent mic or line level input that is summed (mixed) with the selected active program audio.

All models have balanced or unbalanced input and output capability. DIP switches are provided to set the voice input level to mic or line, adjust microphone sensitivity, set phantom power and select mono or stereo operation. They also have adjustable volume control buttons and mute for both the program audio and voice inputs. Each individual program audio trim (gain), program audio input select, muting and volume control can be executed locally by front panel pushbuttons, muting by external dry contact closure and additional commands via RS-232 serial control. On board LED's monitor; program, input select, volume level and mute status.

The **IT-A411-25M70** features a 25W mono internal audio amplifier to drive either a 4 to 8 ohms speaker or a 70V line output, preamp out.

The **IT-A411-25S8** offers a 25W stereo output internal audio amplifier to drive a either a 4 to 8 ohms speaker, preamp out.

FEATURES

- Mic / line level voice lift input
- Program audio / voice lift mixing
- Program audio inputs and outputs
- Serial control with serial pass-through
- Terminals for remote muting of voice and/or program audio via dry contact closure
- On board LED's monitor; input select, volume level and muting status
- Current limited remote LED output terminal for program audio and voice (mute) status
- Integrated audio amplifiers on A25-M70 and A25-S8 models
- Program audio trim (gain)
- Preamplifier output

FSR Inc.

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IT-AS411-25S8 SPECIFICATIONS AND DRAWINGS

Program Audio Input

Program Inputs:	4, Stereo balanced/unbalanced
Connector Type:	Pluggable screw terminal
Input sensitivity:	-20dBV with 8Ω load
Input Level:	7.5dBV
Input Impedance:	20kΩ balanced/unbalanced

"Voice in type" Input

Connector type:	Pluggable screw terminal
'Voice in' type:	Microphone/Line
Microphone sensitivity:	-43/-35dB
Maximum input level:	1dBV
Low cutoff:	200Hz
Phantom power:	24V

Preamp Audio Output

Connector type:	Pluggable screw terminal
Number of outputs:	1 Stereo or 2 Mono (L + R program input summed)
Signal output:	Balanced/unbalanced
Frequency response:	20Hz – 20kHz (+/- 0.5dB)
THD + N:	<0.09% @ 1kHz; 11dBV with 600Ω load (balanced)
Signal to Noise ratio:	>80dB @ 1 kHz; rated output (unweighted)
Output impedance:	50Ω

Amplifier Audio Output

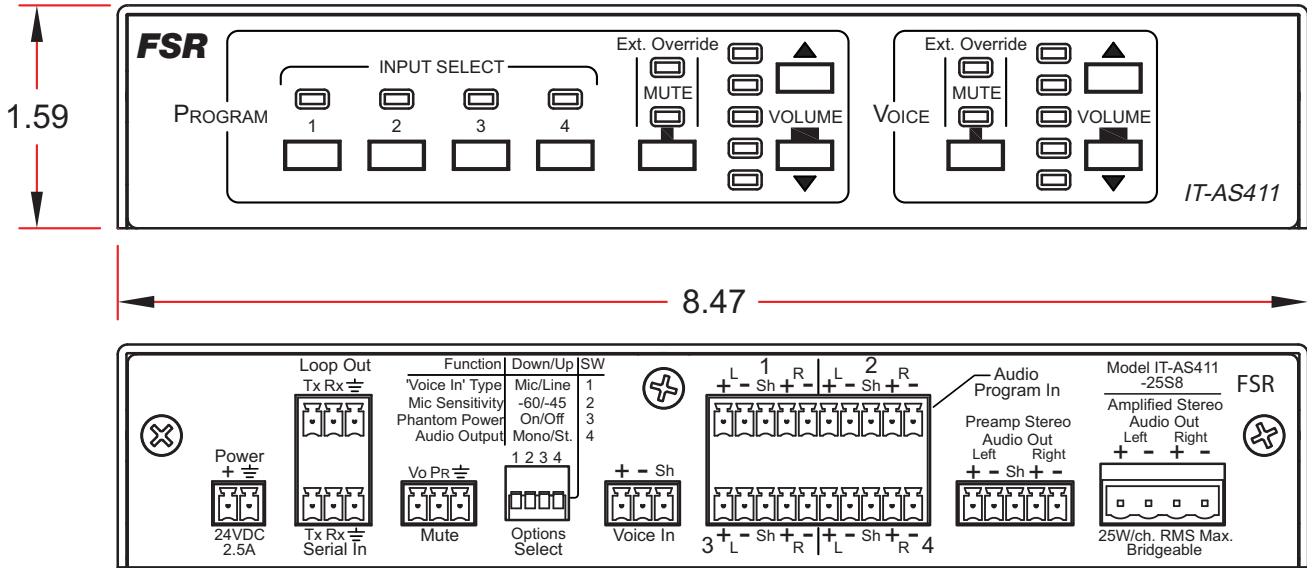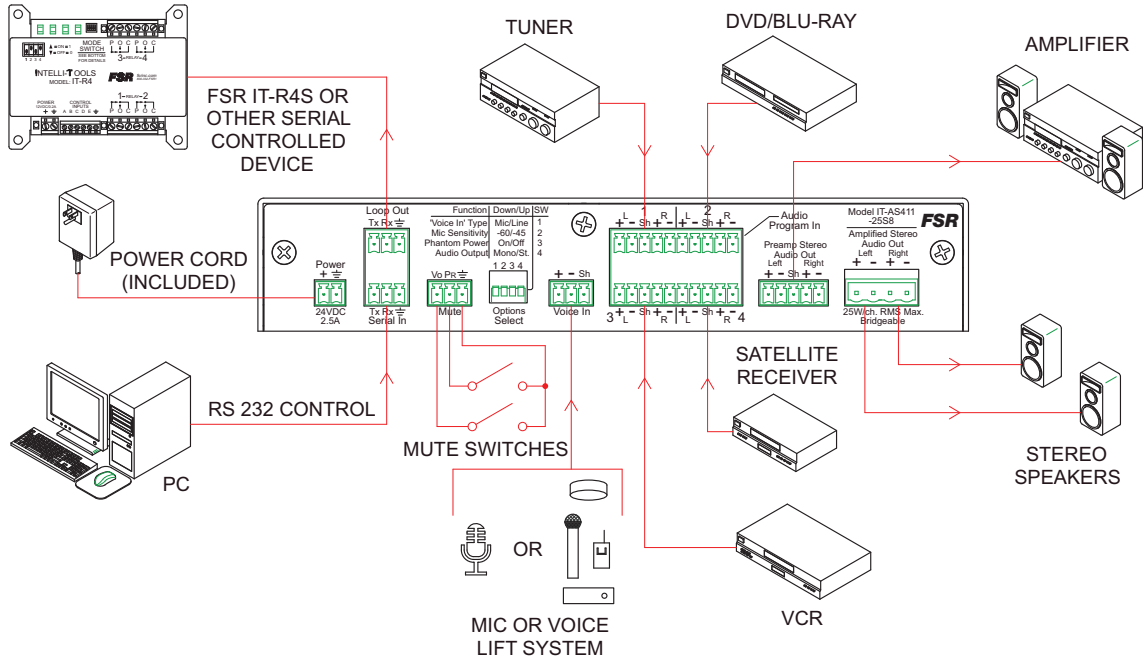|	
Connector type:	Pluggable screw terminal
Number of outputs:	Stereo or 2 Mono (L + R program input summed)
Frequency response:	20Hz – 20kHz (+0, -1dB)
THD + N:	<0.7% @ 1kHz; 25Wrms 8Ω
Signal to Noise ratio:	>80dB @ 1kHz; rated output (unweighted)
Load impedance:	4 to 8Ω
Power output:	25Wrms @ 4 to 8Ω

Power

24 VDC 2.5A

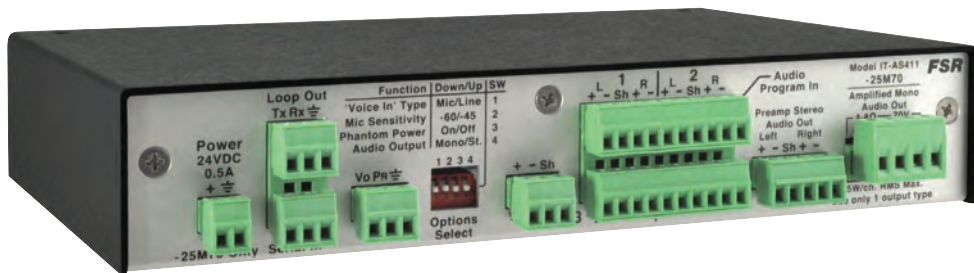## Dimensions:

Half Rack x 1U

Shipping Weight:

3.5 lbs.

IT-AS411-25S8 DRAWINGS

DEPTH IS APPROXIMATELY 6.00"

Application Example

IT-AS411-25-M70 SPECIFICATIONS AND DRAWINGS

Program Audio Input

Connector type:	Pluggable screw terminal
Program Inputs:	4, Stereo balanced/unbalanced
Input sensitivity:	-20dBV with 8Ω or 70V load
Maximum Input Level:	7.5dBV
Input impedance:	20kΩ balanced/unbalanced

"Voice in type" Input

Connector type:	Pluggable screw terminal
'Voice in type' mode:	Microphone/Line
Microphone sensitivity:	-43/-35dB
Maximum input level:	1dBV
Low cutoff:	200Hz
Phantom power:	24V

Preamp Audio Output

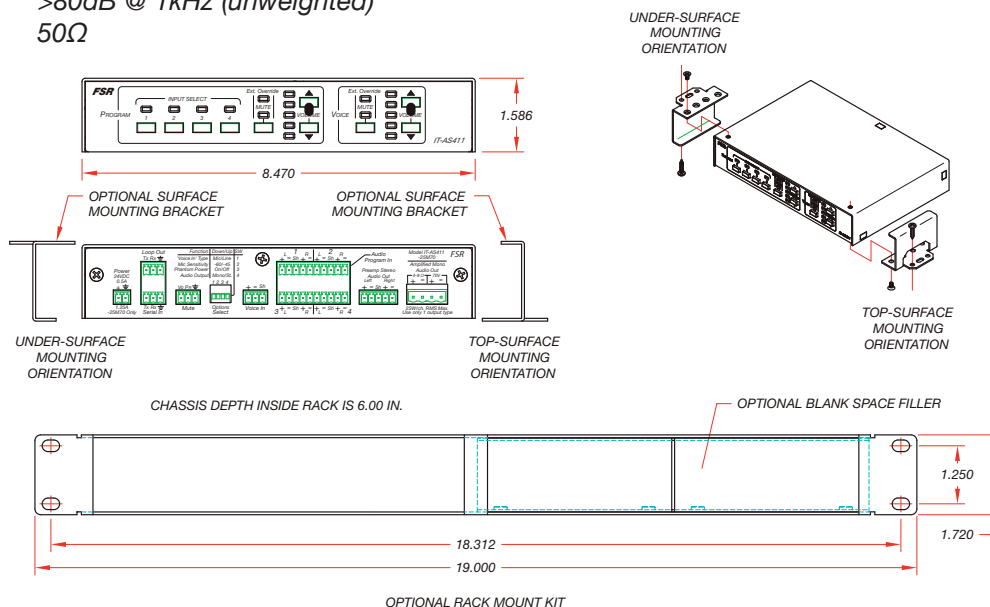|	
Connector type:	Pluggable screw terminal
Number of outputs:	1 Stereo or 2 Mono (L + R program audio input summed)
Signal output:	Balanced/unbalanced
Frequency response:	20Hz – 20kHz (+/- 0.05dB)
THD + N:	<0.09% @ 1kHz 11dBV with 600Ω load (balanced)
Signal to Noise ratio:	>80dB @ 1kHz (unweighted)
Output impedance:	50Ω

Amplifier Audio Output

Connector type:	Pluggable screw terminal
Number of outputs:	2 Mono[1]
Frequency response:	100Hz – 20kHz (+0, -1dB) -3dB @ 50Hz
THD + N:	<0.8% @ 1kHz 25Wrms 70V <0.7% @ 1kHz 25Wrms 8Ω
Signal to Noise ratio:	80dB @ 1kHz (unweighted)
Load impedance:	4 to 8Ω or 70V
Power output:	25Wrms @ 4 to 8Ω 25Wrms @ 70V

Power	24 VDC 1.25A
Dimensions:	Half Rack x 1U
Shipping Weight:	3.5 lbs.

[1] Use only one output type (4-8Ω or 70V) in a particular installation.

UNDER-SURFACE MOUNTING ORIENTATION

1.586

8.470

IT-AS411

OPTIONAL SURFACE MOUNTING BRACKET

OPTIONAL SURFACE MOUNTING BRACKET

UNDER-SURFACE MOUNTING ORIENTATION

TOP-SURFACE MOUNTING ORIENTATION

TOP-SURFACE MOUNTING ORIENTATION

CHASSIS DEPTH INSIDE RACK IS 6.00 IN.

OPTIONAL BLANK SPACE FILLER

1.250

18.312

19.000

1.720

OPTIONAL RACK MOUNT KIT

FSR Inc.

MADE IN THE USA

GREEN

Specifications are subject to change without notice.