

Analogue Audio Switcher

FEATURES

- 5 x 1 Stereo on one Eurocard.
- May be cascaded to 20 x 1.
- Local or remote control options.
- Universal wire per crosspoint or binary coded remote control.
- Compatible with other 3000 series analogue & digital switchers.

GENERAL

The AAS-3021 stereo audio switcher is part of a family of “smart” switchers in Eurocard format that may be linked and configured by the user to cover a wide range of switching and monitoring functions.

On board links allow several switchers to be joined for 10 x 1, 15 x 1 or 20 x 1 operation.

The switcher may be slaved to operate in conjunction with similar switchers for analogue and digital video, audio and RS422 or similar control signals.

This makes the switchers ideally suited to situations where a mixture of analogue and digital signals is present.

The CPS-3050 local control switch panel kit converts the switcher for stand-alone operation.

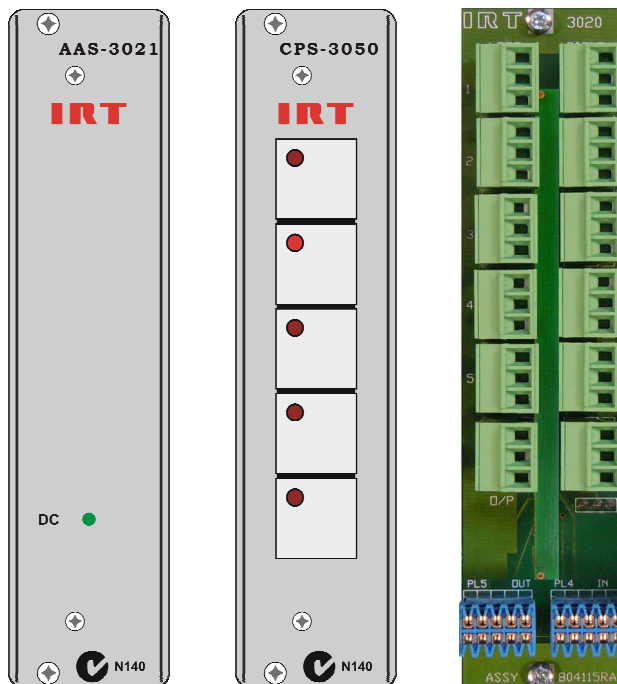
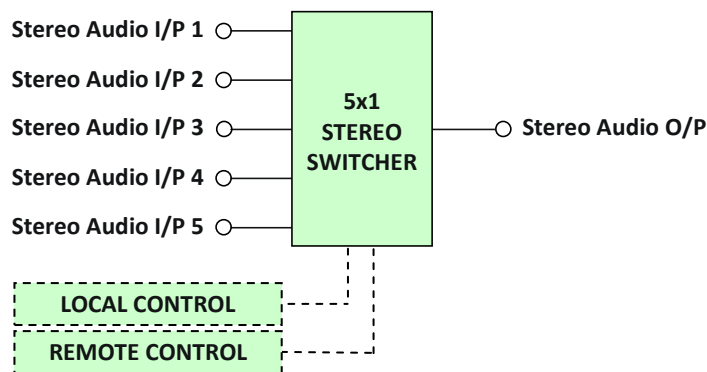
The CPS-9001 provides a 5 button remote control in a panel the same size as the CPS-3050.

The CPS-1050 and 1052, 1 RU remote control panels allow formation of 10 x 1, 15 x 1 or 20 x 1 combinations.

All panels have tally LED's and switch label inserts. Multiple panels may be used with tally to each panel.

A complete video plus stereo audio switcher can be assembled from just two modules and can be accommodated in a single rack unit frame.

BLOCK DIAGRAM AAS-3021 SIGNAL PATH



TECHNICAL SPECIFICATIONS

Audio inputs:

Number	5 x 2 (5 stereo).
Type	Transformerless, bridging AC coupled.
Impedance	> 10 k Ω .
Max. input level	+24 dBu.
Input CMR	> 40 dB @ 55 Hz.

Audio outputs:

Type	Transformerless, balanced DC coupled.
Number	1 x 2 (left and right).
Impedance	< 44 Ω .
Max. output level	+24 dBu into 600 Ω .
DC on output	< ± 20 mV.

Control inputs/outputs:

Type	5 bit TTL coded parallel ECL level. or individual grounding contacts.
Number	1 input & 1 output.

Performance:

Gain	± 3 dB (adjustable by internal preset).
Frequency response	± 0.5 dB for 20 Hz to 20 kHz.
Harmonic distortion	< 0.01% 20 Hz to 20 kHz at +20 dBu output.
Noise	-90 dB, Ref. +20 dBu 20 Hz to 20 kHz.
Crosstalk left/right	-70 dB @ 15 kHz with measured input terminated.
Phase left/right	$\pm 0.2^\circ$ to 20 kHz.

Power Requirements:

Voltage	28 Vac CT (14-0-14) or ± 16 Vdc.
Power consumption	< 8VA (+ 24 dBu, outputs loaded in 600 Ω).

Connectors:

Audio	Plugable screw block connectors.
Control	Plug in 10 pin dual IDC.

Other:

Temperature range	0 - 50° C ambient.
Mechanical	Suitable for mounting in IRT 19" rack chassis with input, output and power connections on the rear panel.
Finish	Grey background, black lettering & red IRT logo.
Front panel	Detachable silk-screened PCB with direct mount connectors to Eurocard and external signals.
Rear assembly	6 HP x 3 U x 220 mm IRT Eurocard.
Dimensions	
Supplied accessories	Rear connector assembly including matching connectors for audio and control inputs & outputs.
Optional accessories	CPS-3050 local control conversion with 5 pushbuttons & tally LED's. CPS-9001 remote control panel with 5 pushbuttons & tally LED's.