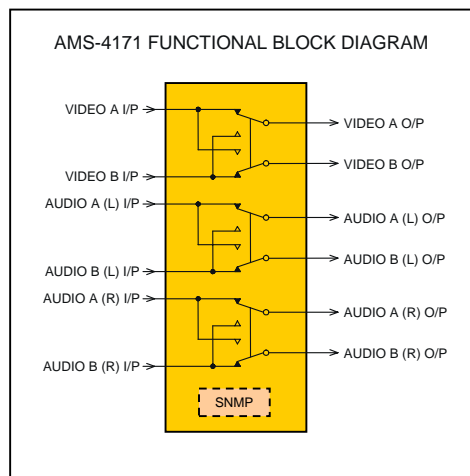


Relay Video & Audio Switch Type AMS-4171



Features:

- One video and two balanced audio changeover switches in one package
- Video path suitable for HDSDI (1.485Gb/s), SDI, analogue video, ASI data streams and G703 signals @ 2, 8, 34, 45, 144, 155Mb/s
- Audio path suitable for 2 balanced, or 4 unbalanced, audio or data signals
- Married or independent operation
- Default path on power fail
- Local or remote control
- Optional plug-in SNMP monitoring and control module
- Front panel LED status indicators

General:

The AMS-4171 consists of one “video” and two “balanced audio” switches. Each switch is arranged as a changeover set with two inputs and two outputs. No terminations are provided on the board allowing the switcher to be used in a wide variety of applications and with signals of various types and impedances.

The “video” path uses enhanced performance relays to provide switching capabilities for high-speed data signals up to 1.485 Gb/s and may be used with analogue video, SDI, HDSDI, ASI or G.703 data signals.

The “audio” path may be used for balanced or unbalanced audio or control signals (RS232, RS422, RS485 etc).

The AMS-4171 is ideally suited to applications where a simple choice between two inputs or outputs is required and may be easily driven by audio, video or other detector circuits for automatic path selection.

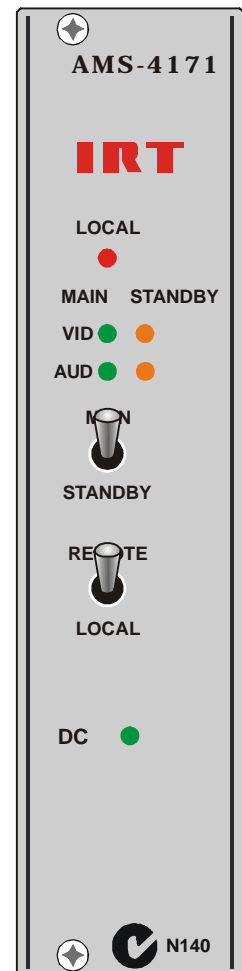
Front panel switches allow a choice of local or remote control operation.

Front panel LED indicators are used to indicate the status of each relay circuit.

Remote control is via a switch to ground connection, where video and audio may be operated independently or with audio following video by means of link settings.

An optional SNMP (Simple Network Management Protocol) plug-in module is available for remote monitoring and control when used in conjunction with IRT’s 4000 series frame fitted with SNMP capability.

The AMS-4171 is designed to fit IRT’s standard Eurocard frames as well as IRT’s 4000 series frame for use with IRT’s SNMP system and may be used alongside any other of IRT’s analogue or digital Eurocards.



AMS-4171 Technical Specifications

Video Signal Path:

Signal types	HDS/SDI/ASI/G.703/Video
Switching characteristic	Non latching 4 port changeover relay.
Video crosstalk between channels	< -70 dB to 10 MHz. < -50 dB to 300 MHz. < -30 dB to 1.5 GHz. (With measured channel input terminated by 75 Ω)
Frequency response	+0/-0.5 dB 0 Hz to 750 MHz, +0/-1.5 dB 750 MHz to 1.5 GHz

Return loss	25 dB @ 45 MHz 15 dB @ 270 MHz 15 dB @ 1.5 GHz
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Audio/Low speed Data:

Audio Crosstalk	Between channels with measured channel input terminated by 600 Ohms. Less than -90 dB (20 Hz - 20 kHz).
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Auxiliary Data:

Mode	TTL level: Local = 0V (LOW); Remote = 4.5V (HIGH) via pull-up resistor, or open drain (link selectable).
Data/Tally	Relay changeover contact set. Common can be left open, or linked to ground or +12V of the main board.

Control:

Inputs	Ground, or TTL compatible circuit with 2k2 internal pull-up resistors to +4.5V.
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Connectors:

Audio:	5 pin plug in screw termination sockets.
Control:	4 pin plug in screw termination socket.

Other:

Relay contact rating	24 Vdc - 1 A 100 Vac - 0.3 A
Power requirements:	28 Vac CT (14-0-14) or ± 16 Vdc.
Power consumption	1 VA.
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.

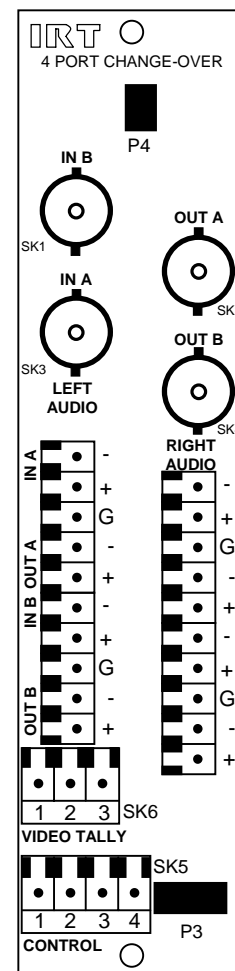
Finish: Front panel: Grey background, black lettering & red IRT logo.
Rear assembly: Detachable silk-screened PCB with direct mount connectors to Eurocard and external signals.

Dimensions: 6 HP x 3 U x 220 mm IRT Eurocard.

Supplied accessories: Rear connector assembly with matching connectors for control and audio inputs.

Optional accessories: SNMP plug-in module for use with 4000 series frame fitted with SNMP "Agent".

Due to our policy of continuing development, these specifications are subject to change without notice.



Detailed specifications available from:

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<http://www.irtelectronics.com>