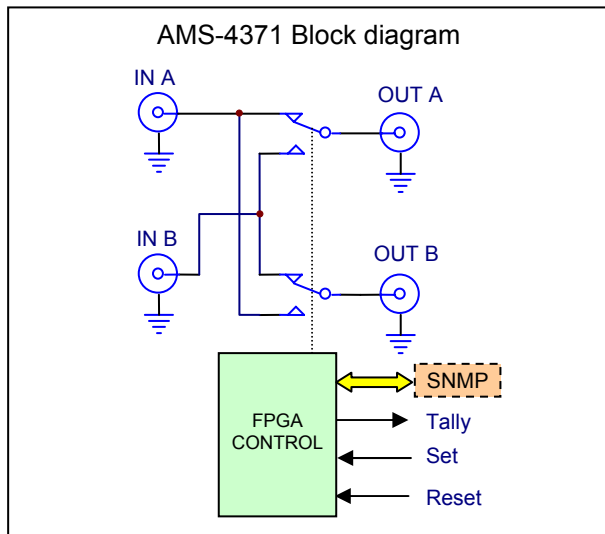


3G/HD/SD-SDI, ASI, G.703, Video 4 Port Changeover Relay Type AMS-4371



Features:

- Signal path suitable for 3G-SDI, HD-SDI, SD-SDI, analogue video, ASI data streams and G.703 signals @ 2, 8, 34, 45, 144, 155Mb/s.
- Momentary Set/Reset control.
- No path change on power fail or board removal.
- Local or remote control.
- Front panel LED status indicators.
- Optional plug in SNMP monitoring and switching module.

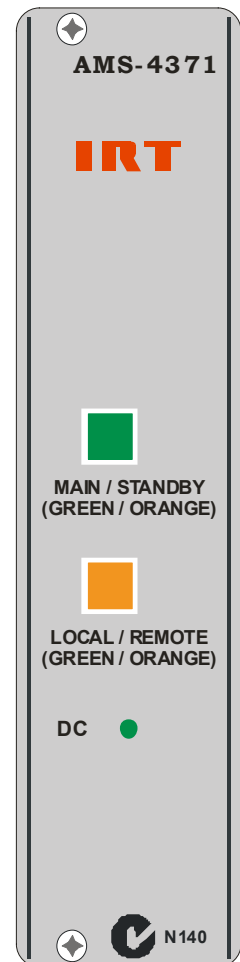
General:

The AMS-4371 is a magnetic latching 4 port changeover switcher using enhanced performance relays which provide switching capabilities for high speed data signals up to 2970 Mb/s. It is suitable for switching 3G/HD/SD-SDI video, ASI, G.703 data streams, or analogue video signals.

The AMS-4371 is arranged as a changeover switch 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.

The magnetic latching characteristic of the high performance relays allows momentary control and also provides for no change of path during power loss.

The AMS-4371 is ideally suited to applications where a simple choice between two inputs or outputs is required and may be easily driven by detector circuits for automatic path selection.



Local switching is possible using front panel push button switches. Remote switching is possible using external normally open or normally closed alarms.

Front panel switches use a one second delay to avoid accidental switching if bumped. After a period of approximately five to six minutes, the AMS-4371 automatically switches back into remote mode.

Remote indication of tally status is provided for integration into central alarm and monitoring systems.

An optional SNMP (Simple Network Management Protocol) plug-in module is available for monitoring and control when used in an IRT frame fitted with SNMP capability.

The AMS-4371 is designed to fit IRT's 1RU and 4000 series 3RU Eurocard frames¹ and may be used alongside any other of IRT's analogue or digital Eurocards.

¹ Not compatible with pre-4000 series 3RU frames.

AMS-4371 Technical Specifications

Signal path:

| | |
|--------------------------|---|
| Signal types | 3G-SDI/HD-SDI/SD-SDI/ASI/G.703/Video. |
| Impedance | Non-terminating, designed for 75 Ω use. |
| Switching characteristic | Magnetic latching 4 port changeover relay. |
| Frequency response | +0/-1 dB 0 Hz to 1500 MHz, +0/-1.5 dB 1500 MHz to 3 GHz. |

Auxilliary Data:

| | |
|---------|---|
| Tally | Magnetic latching relay changeover contact set. |
| Main | Connection between pins 2 & 3 (IN A - OUT A, IN B - OUT B). |
| Standby | Connection between pins 1 & 2 (IN A - OUT B, IN B - OUT A). |

Control:

| | |
|-------|--|
| Mode | Momentary ground or open circuit, switch selectable. |
| Set | Pin 1 (IN A - OUT B, IN B - OUT A); |
| Reset | Pin 2 (IN A - OUT A, IN B - OUT B); |
| Gnd | Pin 3. |

| | |
|----------------------|---|
| Front panel switches | Momentary illuminated push button. Note that front panel switch needs to be held down approximately 1 second for activation to occur. Automatic remote default setting after approx. 5 - 6 minutes. Note that remote setting does not take control until there is a change in state of remote signals. |
|----------------------|---|

Connectors:

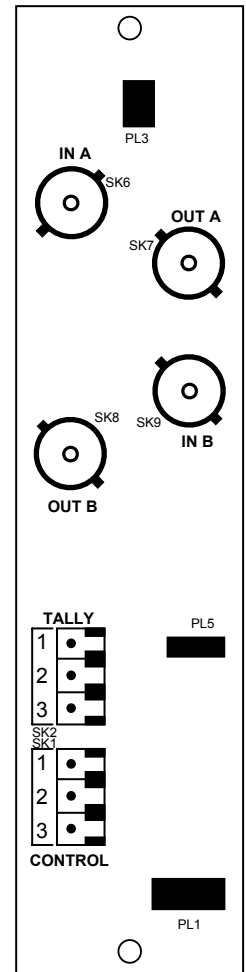
| | |
|----------------|--------------------------------------|
| Video: | BNC. |
| Video Tally: | 3 pin Phoenix pluggable screw block. |
| Video Control: | 3 pin Phoenix pluggable screw block. |

DIP Switch Settings:

| | | |
|----------|-----------|---------------------------------|
| Control: | SW3-1 OFF | Switch to ground control. |
| | SW3-1 ON | Switch to open circuit control. |
| Relay | SW3-2 OFF | Magnetic Latch relay control. |
| | SW3-2 ON | Toggle relay control. |

Other:

| | |
|----------------------|---|
| Relay contact rating | 30 Vdc - 0.5 A. |
| Power requirements: | 28 Vac CT (14-0-14) or \pm 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 input and tally outputs. |
| Optional accessories | SMU-4000 SNMP plug-in module for use with IRT 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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IRT can be found on the Internet at:
<http://www.irtelectronics.com>