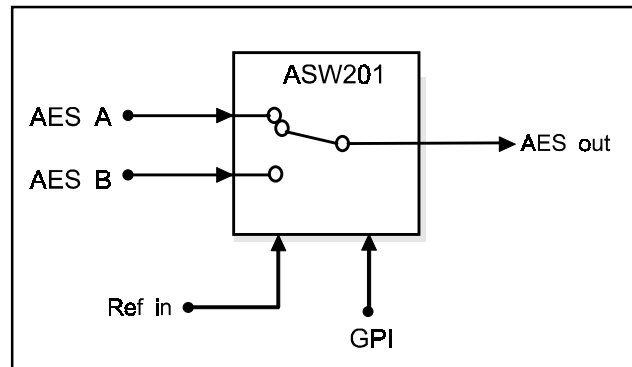


2x1 Clean Audio Switching Module

Features

- AES/EBU digital audio switch
- Aligns two AES streams
- Auto-change over mode
- GPI control
- Relay Bypass



Introduction

The ASW201 allows switching between two AES digital audio signals. The AES signals are decoded and aligned to ensure that a clean switch is achieved. The AES output from the card therefore remains stable and valid at all times. This ensures that audio equipment further down stream is not disrupted and that there is no audible disturbance.

The card can be made to auto-switch so that when the main input (A) disappears or becomes corrupted it will switch over to B. It will then only switch back to A once a valid signal has been established for a reasonable period of time. Alternatively it can operate in "Manual Only" mode, where an external GPI will drive the change to B

Its compact size allows multiple channels to be put into a single frame. It can be used with Microvideo's ESW201 digital video switching modules, allowing a single box solution for audio - video switching.

Specifications

Digital Audio Inputs / Outputs

2 x AES in, 1 x AES out.

24 or 20 bit AES/EBU as described in EBU Tech 3250-E (or AES-3-1992), with 48Khz sample rate.

Standard module uses balanced AES input/output through 15 way D-types.

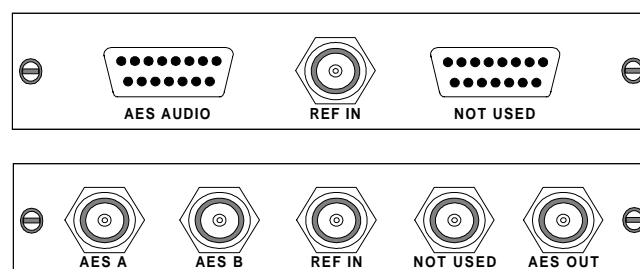
Single Ended unbalanced AES using BNCs can be provided in lieu of D-types, input and output impedances can be either 75R or 110R (selected by links on the board).

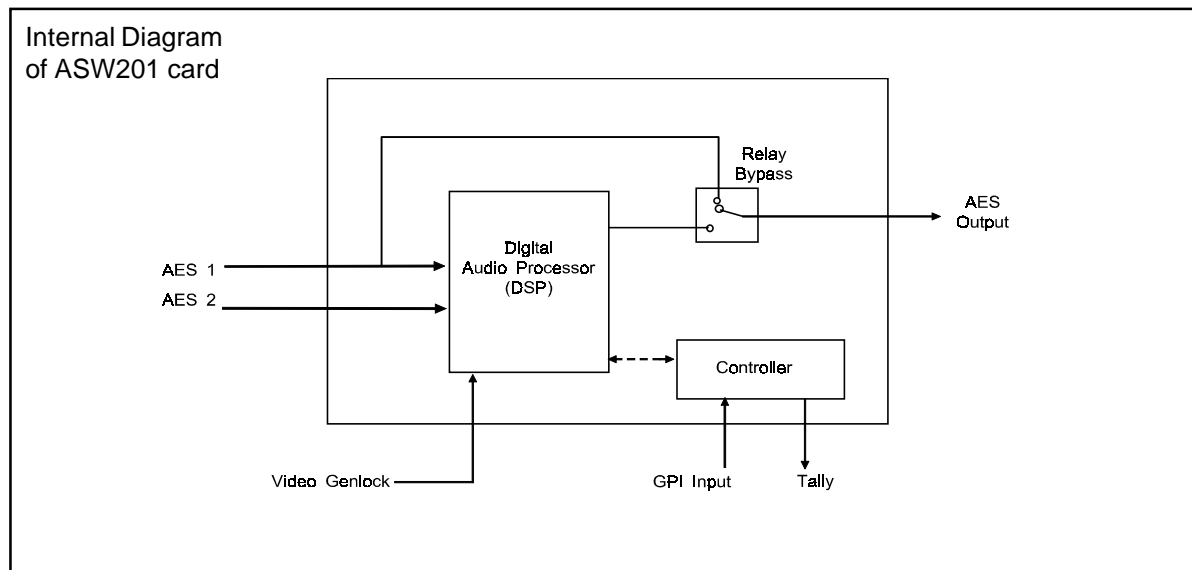
Relay Bypass will route input A to the output when power is removed.

Timing Reference Inputs

- 1) Analogue Video Reference, standard 1V Black and Burst (Link allows internally terminated to 75R).
- 2) Option -AESREF provides a additional AES input which the card can use as a reference.

Note : The card can be set to reference off the main AES input, however using the Ref Input ensures that the output timing always remains fixed, regardless of variation on the inputs.





Control

DIP switches

With the Standard software (ver. ASW-1) the following parameters can be set by Dip switches.

Up	Down
Use Video Ref Input	Use AES Ref
625	525
Remote Control	Dip Switch Control
Switch to A	Switch to B
Manual Mode	Auto Switch Mode
20 bit data output	24 bit data output
Normal Op	1KHz Test Tone Output
Process	Bypass (passive relay)

GPI input Control

Standard Configuration provides one GPI which when taken low will activate the switch to AES B. The GPI must be held low to stay on B. If no input is present on B then the switch will not occur. For alternative GPI requirements contact Microvideo.

Tally Output indicates when it is switched to B. This is an open collector to ground.

GPI and tally for all cards in the frame are taken to a common D type, on the rear of the frame.

Physical

Single Eurocard 220x100mm module for fitting in a Microvideo 1U or 3U frame. It may be mixed with other Microvideo Series 200 boards in the same frame.

Product Codes

ASW201	2x1 Clean Audio Switching Module for AES audio, with D-type rear connector module.
options	
-AESREF	Extra input for AES silence as reference.
-UB	Unbalanced BNC I/O.

Related Products

ESW201	2x1 SDI switch.
RSW201	Relay switch card, 4 differential pairs.
VSW201	Analogue video switch.