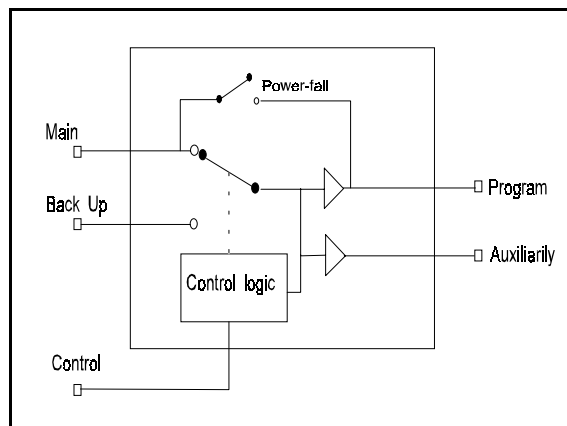
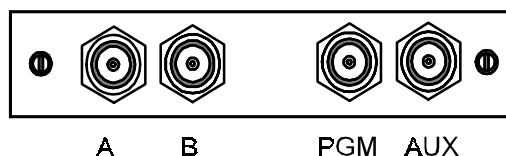


## 2x1 Switching for Serial Digital Video

### Features:

- Cost effective 2x1 switching.
- Automatic switching on signal loss.
- GPI interface for external switch control.
- Power-fail bypass.
- Vertical interval switching.



The ESW201 is designed for simple switching applications, where larger routers are not cost effective or would not offer failure safety measures and automatic switching.

The ESW201 provides a clean switching action which is done electronically during the vertical interval (on line 6). Provided the two inputs are co-timed the switch will cause no disruption to the picture. This allows it to be used for live switching.

It can be externally controlled by GPI contact closure. For emergency applications it can be set to switch automatically by detecting the loss of the main input signal or loss of valid sync pulses. A tally output indicates when the switch has occurred.

A bypass relay also ensures that the program path is maintained even in the event of power failure.

**Inputs:** 2 x Serial Digital Video (270Mb/s) to SMPTE 259M (EBU Tech 3267-E), called A and B.

**Outputs:** 2 x re-clocked SDV (270Mb/s), called Program and Auxiliary output.  
In the event of power failure to the unit a bypass relay connects input A to the Program output. This can also be activated by a switch on the front of the card.

**Control:** In "Manual" switch mode a closing contact to ground on the GPI input causes a switch to input B.  
In "Auto" switch mode the card will switch to input B when the video on input A becomes invalid (loss or mis-aligned sync words for 8 fields). In Auto mode switching can still be activated by the external GPI input.  
A tally output is provided which indicates switch status. Control and Tally signals are taken to a common connector on the rear of the frame.

**Physical:** Eurocard size module for mounting on our 1U or 3U frames.  
Power consumption = 5W

**Rack Frames:** Up to 6 modules will fit in a Microvideo 1U FRAME. A 3U frame is also available.  
They may be mixed with other Microvideo Series 200 boards in the same frame.

**Product Code:** ESW201 2x1 serial digital video emergency switch module.