nevion

Flashlink

PGM-HD-2x1-PB

# V-fade switch with input protection for back-up switching

The Flashlink PGM-HD-2x1-PB is an affordable back-up mixing unit, intended for in-program mixing applications. The unit applies fade-out/fade-in of video and embedded audio, controlled by two GPI lines. The fade-in and fade-out times are independently adjustable for both inputs with an adjustable period of all-black. The audio gain can be set independently for the two video inputs to match their perceived audio volumes. The PGM-HD-2x1-PB has a built-in frame synchronizer, enabling error-free switching between asynchronous sources, which is fully controlled by onboard switches and buttons. The frame synchronizer functionality also allows for adjustment of the video output phase to match the main mixer output. The two inputs are protected by a relayed bypass, ensuring passive bypass of both input signals at power down or card failure. The PGM-HD-2x1-PB has a user friendly configuration and monitoring interface in the Flashlink element manager Multicon. This unit can also be used stand-alone, enabling easy integration with existing equipment.

Applications

- Studio video mixer back-up
- Studio infrastructure

Key features

- 2 electrical inputs
- V-fade switching with adjustable fade timings
- GPI control
- Adjust audio gain independently per input channel
- Frame synchronizer with output phase adjustment and frame store
- Video generator
- OSD label generator
- Easy-to-use web interface and manual interface
- SNMP support
- Relay bypass of both inputs on board failure
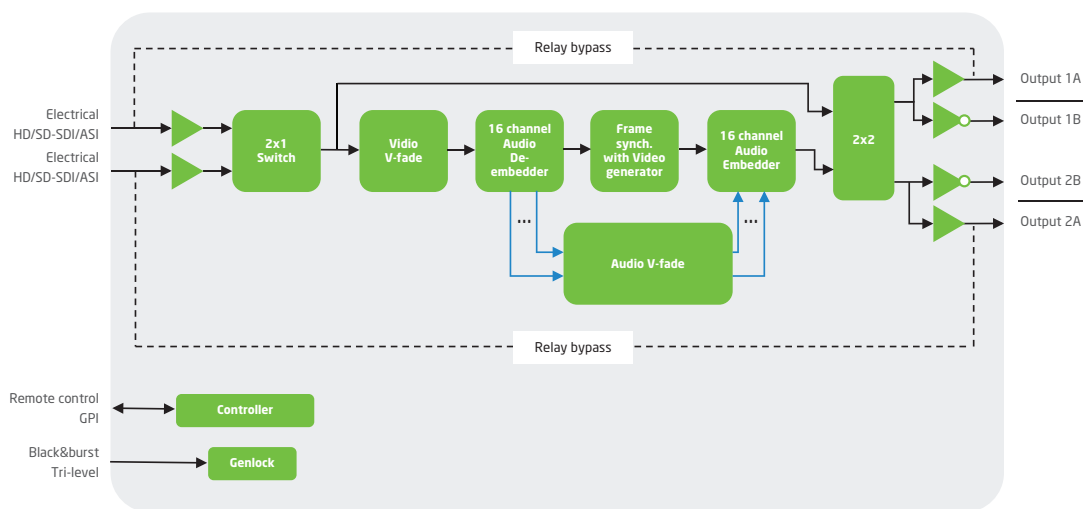
PGM-HD-2x1-PB

Features

The Flashlink PGM-HD-2x1-PB is a V-fade switch, fading video to black and audio to silence before switching the input. After switching the video the audio is faded in. The fade timings can be set through Web or SNMP interface with the Flashlink Element manager Multicon. The V-fade switch can be controlled from GPI or through Web or SNMP interface. The unit features an input channel dependent audio gain control to correct for audio level differences between the two channels. The onboard frame synchronizer makes it possible to adjust the output phase. The board also has a frame store function and internal video generator. This can be setup as backup if loss of all inputs occurs. An OSD text can be inserted if loss of signal. The PGM-HD-2x1-PB also has a relayed bypass of each input to an output that creates a passive bypass of the input signal at power down or card failure. This bypass is enabled during card upgrades.
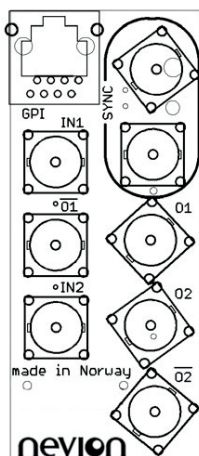
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General

Power	3.5W/5V, 1.2W/15V
User interface	Status LED, Status GPI, configuration DIP, push and rotary switches Web interface and SNMP through Multicon controller
Operating temp.	0 – 40C

Supported standards

SMPTE-259M, SMPTE 272M-AC, SMPTE-292M, SMPTE-274M, SMPTE-291M, SMPTE-296M, SMPTE 299M, SMPTE-352M-2002, SMPTE-170m, SMPTE RP168, ITU-R-BT.470, SMPTE-RP165

Electrical SDI input

No of inputs	2, relay protected
Signal type	HD-SDI, SD-SDI
Cable equalization	Automatic 100m @ HD-SDI w/ Belden 1694A 300m @ SD-SDI w/ Belden 8281
Connector	BNC, 75 Ohm

Electrical SDI output

No of outputs	4
Signal type	HD-SDI, SD-SDI
Signal polarity	2 non-inverting, 2 inverting
Level	800mV +/-10%
Connector	BNC, 75 Ohm

Electrical sync input

No of inputs	1 + 1 loop
Supported formats	Black&Burst, Tri-level
Connector	BNC, 75 Ohm
Return loss	< -35dBm @ <10MHz < -30dBm @ <30MHz

Ordering option

19729 PGM-HD-2x1-PB

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