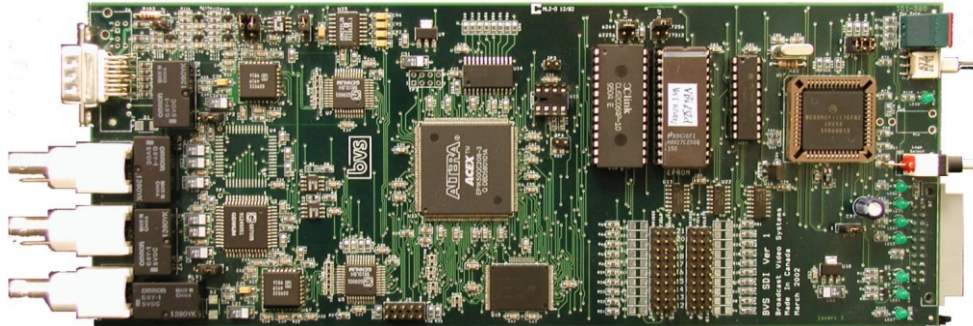




## DSC300 SDI SIGNAL COMPARATOR

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### ***AN IDEAL TOOL FOR LARGE SWITCHING CENTERS***

The DSC300 continually compares two SDI inputs which are presumed to be identical, and outputs a split screen picture for viewing. The digital stream of Input A is continuously subtracted from Input B. If both streams are equal, the difference will be zero. A single error or difference will be registered and stored, for example, if a pixel differs slightly in luminance level between the two inputs. These errors are accumulated and stored for one field, and the store is refreshed to zero every field.

A card edge 10 position switch is used to set the threshold at which the total of the stored errors will cause a GPO to be triggered. The threshold may be set from a minimum of 500 errors per field to a maximum of 10 million errors. Obviously, any difference in picture content, such as a differing or missing logo, would cause an instant alarm. If video is absent from one of the inputs, the GPO will be triggered and the side of the split screen without video will go to black.

The DSC300 constantly monitors the SDI stream for embedded audio. Two GPO's and card edge LED's are used to indicate the presence/absence of embedded audio in Input A and Input B.

Maximum current drain for the three GPO's is 100mA each.  
The DSC300 occupies one of three slots in the FR601, 1RU frame.

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## FR601 FAMILY OF SDI BOARDS

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The FR601 family includes a variety of innovative and cost effective SDI products, all designed as single, plug-in boards. Up to three of these boards may be housed in the FR601, 1RU frame and power supply (optional redundant p.s. available).

**CARDKEY 2:** Linear keyer with adjustable transparency, card edge control plus GPI, or optional remote panel.

**MASTERKEY CK-2:** Chroma keyer with adjustable hue and key level, for blue and green screen backgrounds.

**DFB200:** Frame accurate fade to black with GPI.

**VBI-232D:** Encoder/decoder for transmission of remote control data in the Vertical Ancillary Space.

**DCB-21:** Closed Captioning positioner/bridge prevents previously encoded captions from blocking local road/weather warnings and EAS crawls. Also bridges CC data around 'unfriendly' processing equipment.

**CCA-21:** Closed Captioning alarm, constantly monitors SDI program video to ensure valid closed captioning.

**DSC300:** Signal comparator and alarm, to compare two SDI streams and trigger GPO's on any difference or impairment of video or embedded audio.

**DMA200:** Frame accurate A/B mix amp with GPI.

**CC-101D:** Closed Captioning encoder encodes CC data on line 21 of an SDI signal.

**VC-1D:** V-Chip rating encoder generates & inserts program rating data onto line 21 of an SDI signal.

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