7700ACO2
Dual SD-SDI Smart Automatic Changeover

The 7700ACO2 is the industries leading smart automatic changeover (ACO) for standard definition 270Mb/s serial digital video signals.

This device provides:
- Dual processing paths on a single module
- Smart SD-SDI automatic protection switching of both paths
- Video and Audio Proc Amp Control
- Built in Trouble Slide per ACO
- Optional IntelliGain™ Audio Loudness Processing with Dynamic Audio Range Control

These modules have dual independent processing paths providing both high density and availability of SD-SDI video inputs signals (program and back-up). The 7700ACO2 incorporates Evertz® essential audio and video monitoring which is used to drive the real time automatic switch logic processor.

The 7700ACO2 can optionally be ordered with Evertz® patented IntelliGain™ Audio and Loudness Processor. The IntelliGain™ audio processing engine provides a full compressor/limiter and loudness calculator that processes long-term trends in the audio content and uses a multi-minute time coefficient, which applies a smooth attack producing the final target loudness output.
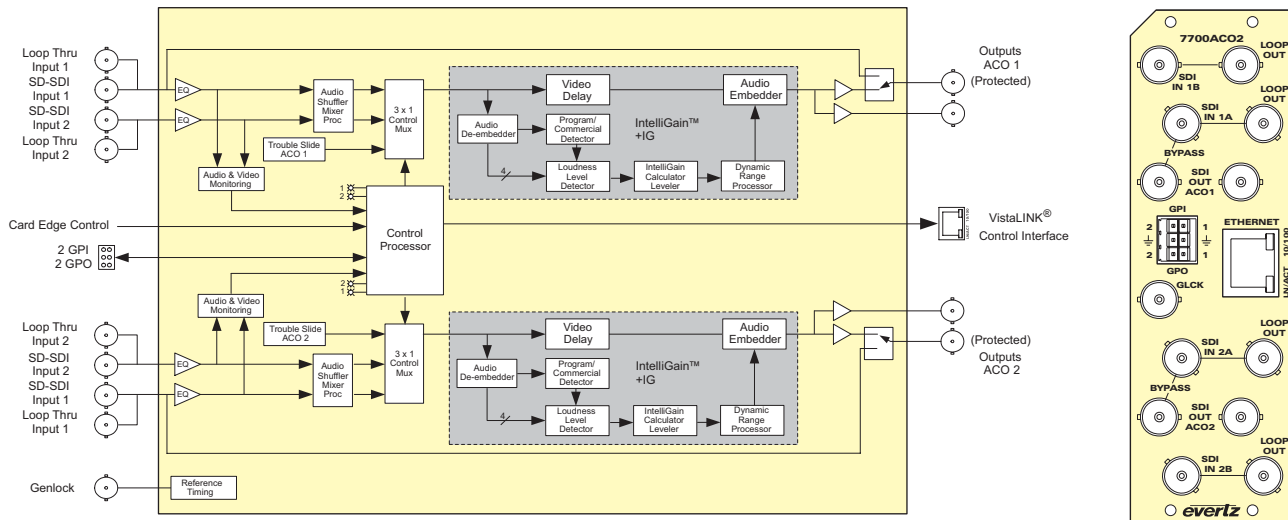
▶ Features & Benefits

Video Inputs and Outputs
- Smart Automatic changeover based on user programmable switch logic
- Card edge menu control for configuration of operating modes and LEDs for reporting signal presence, router state, module status
- Remote monitoring via Evertz® control panels or VistaLINK® PRO.
- Bypass relay protection on main program output

IntelliGain Audio and Loudness Processor
- Consistent audio loudness levels within a channel and/or program
- Automatic detection and level adjust for loud commercials
- Gain control within a program interval to preserve audio dynamic range
- Artifact-free transitions between program and commercials
- Elimination of drastic volume changes during commercials and interstitials

▶ Specifications

Serial Video Input:
Standard:	270Mb/s SMPTE 259M-C (525i/59.94 or 625i/50)
Connector:	2 BNC per IEC 61169-8 Annex A
Input Equalization:	Automatic to 300m @ 270Mb/s with Belden 8281 or equivalent cable
Return Loss:	> 20dB up to 270MHz

Serial Video Output:
Standard:	Same as input
Number of Outputs:	2 Smart switched program outputs (Input 1 is bypass relay protected) Loop thru on Input A and Input B
Connector:	BNC per IEC 61169-8 Annex A
Signal Level:	800mV nominal
DC Offset:	0V ±0.5V
Rise and Fall Time:	900ps nominal
Overshoot:	< 10% of amplitude
Return Loss:	> 20dB up to 270MHz
Jitter:	< 0.10 UI

Electrical:
Voltage:	+12V DC
Power:	20W
EMI/RFI:	Complies with FCC regulations for Class A devices Complies with EU EMC directive

Physical (number of slots):
350FR:	2
7700FR-C:	2
7800FR:	2

▶ Ordering Information

7700ACO2	Dual SD-SDI Smart Automatic Changeover

Ordering Options	Rear Plate must be specified at time of order Eg: Model +3RU

+IG	Integrated IntelliGain™ Audio and Loudness Processor

Rear Plate Suffix
+3RU	3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR Multiframe

Enclosures
350FR	3RU Portable Multiframe which holds up to 7 single slot modules
7700FR-C	3RU Multiframe which holds up to 15 single slot modules
7800FR	3RU Multiframe which holds up to 15 single slot modules