7700ACO2-HD Dual HD/SD-SDI Smart Automatic Changeover

The 7700ACO2-HD is the industry's leading smart automatic changeover (ACO) for high definition 1.5Gb/s or standard definition 270Mb/s serial digital video signals.

This device provides:

- Dual processing paths on a single module
- Smart HD/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 any HD-SDI or SD-SDI video inputs signals (program and back-up). These modules provides a passive loop-thru of both primary and backup input video sources and provides dual safe program outputs.

The 7700ACO2-HD incorporates Evertz® proprietary SoftSwitch[™] technology for clean video and embedded audio switching. Line synchronizers on the video inputs can accommodate differences in timing of up to $\pm 1/2$ a line on the video inputs.

▶ Features & Benefits

Video Inputs and Outputs

- · Auto sensing of HD and SD input formats
- Smart Automatic changeover based on user programmable switch logic
 Cord adapt many control for configuration of opporting modes and LEDs
- Card edge menu control for configuration of operating modes and LEDs for reporting signal presence, router state, module status
- VistaLINK® capable for remote monitoring, control and configuration capabilities via SNMP; using VistaLINK® PRO, CP-2116E or CP-2232E Control Panels.
 VistaLINK® is available when modules are used with the 3RU 7800FR frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame
- Bypass relay protection on main program output

The 7700ACO2-HD incorporates Evertz® essential audio and video monitoring which is used to drive the real time automatic switch logic processor. Common parameters include user configurable loss of signal, freeze, and black detect.



The 7700ACO2-HD can optionally be ordered with Evertz® patented IntelliGain™ Audio and Loudness Processor. The IntelliGain™ processor is designed to normalize perceived differences in audio loudness in real time for any HD/SD-SDI signal with embedded audio. This module will internally de-embed the audio signals, regulate the signal level based on a used defined target loudness level, then re-embed the corrected audio signals back into the video output.

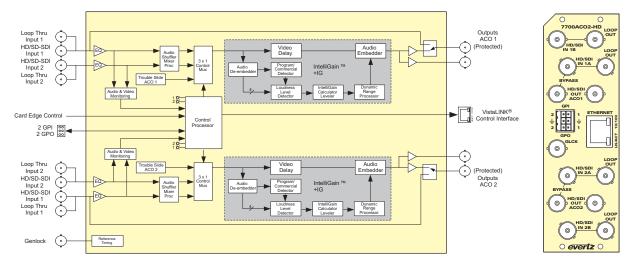
VistaLINK® enables control and configuration capabilities via Simple Network Management Protocol (SNMP). This offers the flexibility to manage the module status monitoring and configuration from SNMP - enabled control systems such as Evertz VistaLINK® PRO locally or remotely.

The 7700ACO2-HD occupies two card slots and can be housed in the 3RU 7800FR frame which has a 15 slot capacity or the portable 3RU 350FR frame which has a 7 slot capacity.

 Integrated SoftSwitch technology for clean video and "popless" embedded audio switching

IntelliGain Audio and Loudness Processor

- Consistent audio loudness levels within a channel and/or program
- · 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
 Ideal for aggregator applications and multi-channel playout facilities (DTH, Cable, IPTV...)



▶Specifications

Serial Video Input:		Reclocked Serial	Video Output:	Electrical:	
Standard:	Auto-detects standard 1.485Gb/s	Standard:	Same as input	Voltage:	+12V DC
	SMPTE 292M (1080i/59.94, 1080i/50,	Number of Outpu	ts: 2 Smart switched program outputs	Power:	20W
	720p/59.94, 720p/50) SMPTE 260M,		(Input 1 is bypass relay protected)	EMI/RFI:	Complies with FCC regulations for
	SMPTE 274M, SMPTE 296M,		Loop thru on Input A and Input B		Class A devices
	SMPTE 349M (HD or SD carrier)	Connector:	BNC per IEC 61169-8 Annex A		Complies with EU EMC directive
	270Mb/s SMPTE 259M-C (525i/59.94	Signal Level:	800mV nominal		
	or 625i/50)	DC Offset:	0V ±0.5V	Physical (numb	er of slots):
Connector:	2 BNC per IEC 61169-8 Annex A	Rise and Fall Tim	ie: 200ps nominal	350FR:	2
Input Equalization:	Automatic 100m @ 1.5Gb/s with	Overshoot:	< 10% of amplitude	7700FR-C:	2
	Belden 1694A or Equivalent cable	Return Loss:	> 20dB up to 270MHz	7800FR:	2
Return Loss:	> 20dB up to 270MHz		> 15dB at 1.5Gb/s		
	> 12dB up to 1.5GHz	Jitter:	< 0.16 UI (HD)		

7700ACO2-HD	DACO2-HD Dual HD/SD-SDI Smart Automatic Changeover		VistaLINK® Frame Controller	
Ordering Options	Rear Plate must be specified at time of order Eg: Model +3RU	7700FC CP-2116E-H CP-2232E	Remote Control Panel Remote Control Panel	
+lG	Integrated IntelliGain [™] Audio and Loudness Processor	Enclosures 350FR	3RU Portable Multiframe which holds up to 7 single slot modules	
Rear Plate Suffix +3RU	3RU Rear Plate for use with 350FR. 7700FR-C or 7800FR Multiframe	7700FR-C 7800FR	3RU Multiframe which holds up to 15 single slot modules 3RU Multiframe which holds up to 15 single slot modules	