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 provide a passive loop-thru of both primary and backup input video sources and provide dual safe program outputs.

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 and 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 that has a 7-slot capacity.
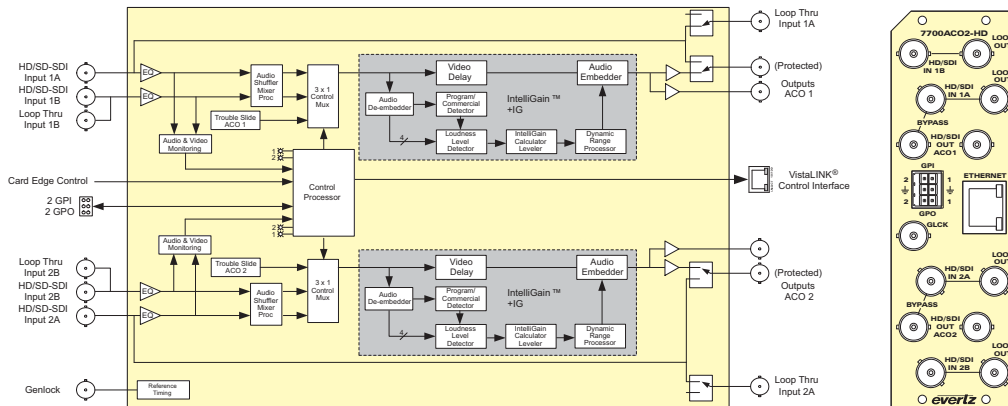
▶Features & Benefits

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

▶Ordering Information

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

			Accessories	
			7700FC	VistaLINK® Frame Controller
Ordering Options	Rear Plate must be specified at time of order (Eg. Model +3RU)		**CP-2116E-H**	Remote Control Panel
			CP-2232E	Remote Control Panel
+IG	Integrated IntelliGain™ Audio and Loudness Processor			
+TL	Thumbnailing option with monitoring (Only available when used with a 7700FC/7800FC frame controller)		**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
Rear Plate Suffix			**7800FR**	3RU Multiframe which holds up to 15 single slot modules
+3RU	3RU Rear Plate for use with 350FR, 7700FR-C, 7800FR Multiframe		**7801FR**	1RU Multiframe which holds up to 4 single or 2 dual slot modules