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

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.

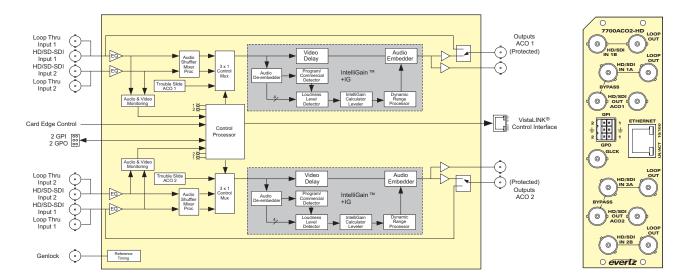
The 7700ACO2-HD can optionally be ordered with Evertz® patented IntelliGain[™] Audio and Loudness Processor. The IntelliGain[™] processor is designed to normalize perceived differences in audio loudness in real time for any HD/SD-SDI signal with embedded audio. This module will internally de-embed the 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.

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...)
- VistaLINK® controlled and monitored



Specifications

Serial Video Input:		Reclocked Serial V	ideo Output:	Electrical:	
Standard:	Auto-detects standard 1.485Gb/s SMPTE 292M (1080i/59.94, 1080i/50, 720p/59.94, 720p/50) SMPTE 260M, SMPTE 274M, SMPTE 296M, SMPTE 349M (HD or SD carrier)	Standard: Number of Outputs Connector:	Same as input 2 Smart switched program outputs (Input 1 is bypass relay protected) Loop thru on Input A and Input B BNC per IEC 61169-8 Annex A	Voltage: Power: EMI/RFI:	+12V DC 20W Complies with FCC regulations for Class A devices Complies with EU EMC directive
Connector: Input Equalization: Return Loss:	270Mb/s SMPTE 259M-C (525i/59.94 or 625i/50) 2 BNC per IEC 61169-8 Annex A Automatic 100m @ 1.5Gb/s with Belden 1694A or Equivalent cable > 20dB up to 270MHz > 12dB up to 1.5GHz	Signal Level: DC Offset: Rise and Fall Time Overshoot: Return Loss: Jitter:	800mV nominal 0V ±0.5V	Physical (numbo 350FR: 7700FR-C: 7800FR:	·
Ordering Inf	ormation				
7700ACO2-HD	Dual HD/SD-SDI Smart Automatic Change	eover	Rear Plate Suffix +3RU 3RU	J Rear Plate for use with	350FR, 7700FR-C or 7800FR Multiframe

Enclosures 350FR

7700FR-C

7800FR

Ordering Options	Rear Plate must be specified at time of order Eg: Model +3RU
+lG	Integrated IntelliGain [™] Audio and Loudness Processor

3RU Portable Multiframe which holds up to 7 single slot modules 3RU Multiframe which holds up to 15 single slot modules 3RU Multiframe which holds up to 15 single slot modules V