

The 7700ACO2-HD is the industries 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). The 7700ACO2-HD incorporates Evertz's essential audio and video monitoring which is used to drive the real time automatic switch logic processor. The 7700ACO2-HD can optionally be ordered with Evertz's 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.

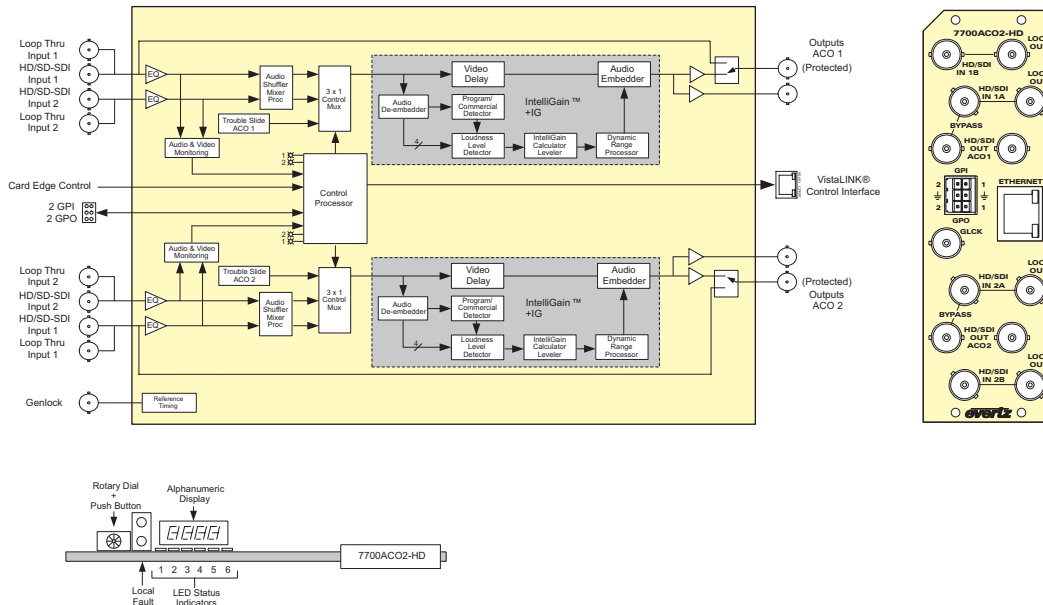
► Features & Benefits

Video Inputs and Outputs

- 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

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: 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) 270Mb/s SMPTE 259M-C (525i/59.94 or 625i/50)

Connector: 2 BNC per IEC 61169-8 Annex A

Input Equalization: Automatic 100m @ 1.5Gb/s with Belden 1694A or Equivalent cable

Return Loss: > 20dB up to 270MHz
> 12dB up to 1.5GHz

Redocked 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: 200ps nominal

Overshoot: < 10% of amplitude

Return Loss: > 20dB up to 270MHz
> 15dB at 1.5Gb/s

Jitter: < 0.16 UI (HD)

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: 2

►►► Ordering Information

7700ACO2-HD Dual HD/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 Multiframe

+1RU 1RU Rear Plate for use with 7701FR Multiframe

+SA Standalone Enclosure Rear Plate

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

7701FR 1RU Multiframe which holds up to 3 single or dual slot modules

S7701FR Standalone enclosure