

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's 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'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.

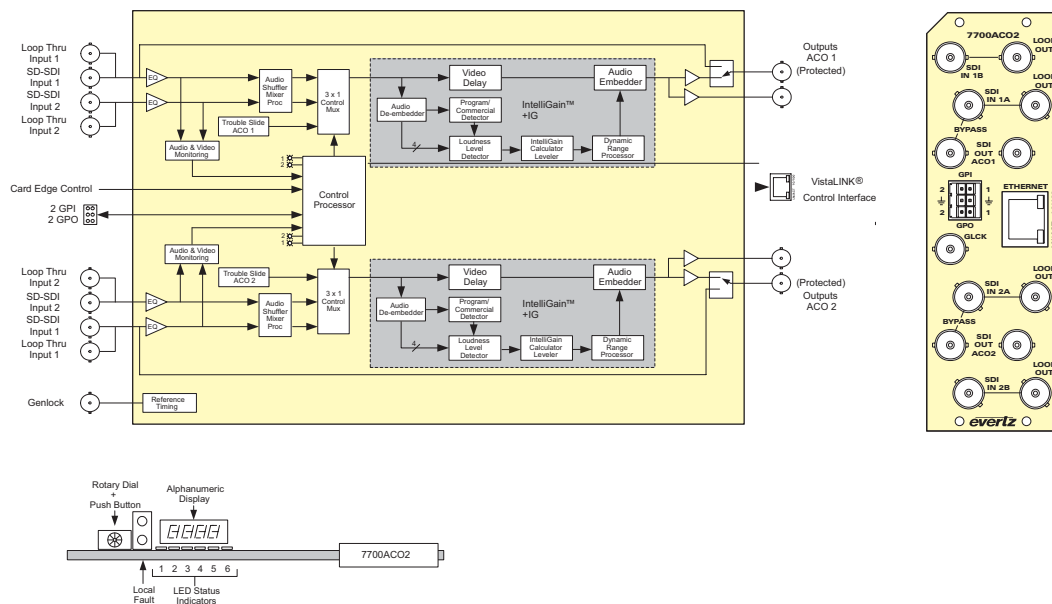
Features & Benefits

Video Inputs and Outputs

- 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: 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 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