

Soloist2-S SDI

MPEG2 Playback System

with Serial Digital (SDI)

Overview

The Soloist2-S SDI ads built-in serial digital (SDI) video switching with embedded AES-EBU audio switching to the Soloist2-S MPEG 2 Playback System. This broadcast quality local origination solution integrates automatic switching, sophisticated scheduling, playback verification, and provides concurrent SDI and analog out, synchronously!

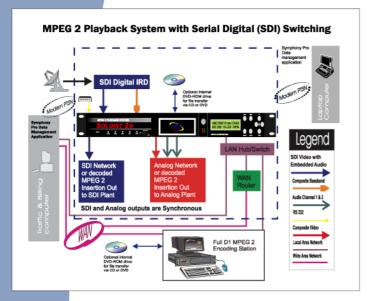
Renefits

> Easy Installation

The Soloist2-S SDI with front-panel display, configures easily. Pass a channel through a unit, select a network source or select a cue source (DTMF, GPI, Time, Vertical Interval, Terminal or Front Panel), load inventory, use drag-and-drop software to build a schedule, and you are ready to go live. Your engineers can quickly be trained to repeat the installation procedure as you expand to additional channels.

> Ultra High Reliability

As an embedded system, the Soloist2-S SDI has been engineered for ultra-high reliability. At its core, a high speed RISC CPU running under Adtec's very video transport operating system (VTOS) provides unparalleled stability. Re-booting is unheard of.





Soloist2-S SDI

> Exceptional Performance

The Soloist2-S SDI is a performer, from the moment it is removed from the box, its rugged durable mechanical and electrical characteristics are evident. No power switch was incorporated in the design, reiterating its rugged reliable nature. Once plugged in, the Soloist2-S SDI is ready to run intended for 24-7-365 operation. Nothing compares!

> Easy Integration

As a stand-alone solution or component part in any local origination system, the Soloist2-S SDI is adaptive. Its small footprint, large storage capacity, low power consumption and MPEG playback compatibility allow it to easily integrate into many environments.

> Integrated Satellite Data Receiver (Optional)

Schedules, store and forward content and commands can be sent using DVB-MPE encapsulation and Adtec's FCMP server. The DVBridge tunes to the PID and extracts the IP data in its original form. Up to 4 PID's can be defined per service with as many as four concurrent services.

Availability

The Soloist2-S SDI is available in a rugged 1 RU steel case with capacity for 2 internally mounted IDE drives. Optionally add an internal satellite data receiver or a DVD drive for loading content.

Applications

- · SDI Switching Cable Local Origination Playback
- SDI Switching Broadcast Long Form Playback
- · High-End Entertainment Venues
- . Satellite MPE or DVB IRD with SDI Out

Soloist2-S SDI MPEG2 Playback System

with Serial Digital (SDI) Video Switching



www.adtecinc.com

Features

Broadcast Quality MPEG 2 decoding Local storage for up to 60 hours of MPEG 2 video Extremely smooth frame accurate transitions Zero pre-roll

Built-In QPSK Satellite Receiver (Optional)

On-Screen Display (OSD)

MP@ML decoding up to 15 Mega bits per second Composite, YC analog video Balanced and unbalanced analog audio

Broadcast quality vertical interval video router Tally output via NC/NO relay and open collector

transistor circuit

Serial, Ethernet and Parallel control

Robust API for developers

MPE IP data router

TCP/IP Ethernet protocol

FTP Client-Server (Concurrent)

EMT (ADTEC LAN Multicast protocol)

FCMP Client (File Control Multicast Protocol) Supports control and data distribution via the

Supports NTSC, PAL, PALN and PALM standards Time Clock with NTP capabilities

Vertical Blanking Interval bypass for Teletex

insertion

Manual and Automatic Traffic and Billing interface

Front panel Decoder and Receiver LED status Keypad with front panel LCD

Scheduling and Play list support

ADTEC embedded real time operating system

Universal input power supply

NOT PC based

1 rack unit chassis

CE certification

(*) Please note the required encoding parameters under the specifications and check our web site for updated file support.

All features subject to change without written notice.

Specifications

Satellite DVBridge (Optional)

Burst rates to 45 Mbits/s. Multi Protocol Encapsulation (MPE) Four (4) internal or IP bridge services PID selectable **QPSK**

Forward Error Correction Viterbi (1/2, 2/3, 3/4, 5/6, 6/7, 7/8) Reed-Solomon (204/188)

MCPC / SCPC

Input Freq.: 950-2150 MHz (L-band)

Adj. in 22KHz steps

Input Impedance: 75 Ohm Terminating Input Levels: -20 to -65 dBm per carrier

LNB Power: 14v, 18v or Off
Current and Voltage protection

MPEG 2 ISO-13818

System and Program Streams GOP of 1 to 15, Full IBP, IP or I only Data rates from 1 to 15 Mbs MPEG Layer 1 and Layer 2 Audio Sampling rates of 48 kHz only Mono, Dual Mono, Stereo or Joint Stereo Data rates supported for Layer 1 32 Kbits/s to 448 Kbits/s in 32 K steps Data rates supported for Layer 2 64, 96, 112, 128, 160, 192, 224, 256, 320, 384 Kbits/s

MPEG 1 ISO-11172-2 System Stream (Hard Drive Only) GOP of 1 to 15, Full IBP, IP or I only 0.50 Mbs to 5 Mbs MPEG Layer 1 Audio Sampling rates of 48 kHz only Mono, Dual Mono, Stereo or Joint Stereo

Standards, Resolutions and Color Frequency

720-480, 30 fps, Full D1

352-480, 30 fps, Half D1

352-240, 30 fps, SIF

Color Frequency: 3,579,545 Hz

PAL

720-576, 25 fps, Full D1 352-576, 25 fps, Half D1

352-288, 25 fps, SIF

Color Frequency: 4,433,618.75 Hz

PAL-M 720-480, 30 fps, Full D1

352-480, 30 fps, Half D1 352-240, 30 fps, SIF

Color Frequency: 3,575,611.49 Hz

PAL-N

720-576, 25 fps, Full D1

352-576, 25 fps, Half D1

352-288, 25 fps, SIF

Color Frequency: 3,582,056.25 Hz

SDI Video Input (Supports embedded AES-EBU)

SDI Channel Video, BNC

Video Outputs (Supports embedded AES-EBU)

SDI Video 1, BNC, (Relay bypass protection)

Analog Video, BNC

(Channel and Content Preview output)

Analog Audio, 5 Pin RST

(Channels are user defined, 1&2 or 3&4)

SDI Video Switcher
SMPTE 259M-C Compliant
Vertical Interval: Line 10 NTSC and Line 6 PAL

Input Impedance: terminating to 75

Nominal Input Level: 0.8 V p-p

Output Impedance: terminating to 75

Nominal Output Level 0.8 V p-p

Return Loss 15 dB to 270 MHz Throughput Delay: 350 ns

AES-EBU Audio Switcher

AES-EBU Audio, BNC embedded with video SMPTE 272M A, B, C Compliant 48 KHz Synchronous Sampling Only Passes all 15 embedded channels

Inserts Stereo Audio only (2 CH) on 4 channels

Auxiliary Cue Input

Auxiliary GPI, 5 Pin RST (Tally), NO/NC CC

Tally Outputs
NO, NC, OA (Open Collector Grounding), 5 Pin RST

Communications

RS232 DCE, RJ-11 Loop Through Baud, 300 to 1,036,800

Data, 7, 8

Stop, 1, 2

Parity, Odd, Even, None Ethernet (Telnet, FTP and FCMP)

Networking

100 Base T

Protocols:

TCP/IP, UDP, SDP, SAP

Ethernet Multicast Transfer (EMT)

(Adtec proprietary physical layer multicast, LAN

File Control Multicast Protocol (FCMP)

(Adtec proprietary Satellite UDP multicast)

FTP Client/Server, Telnet, FTP Push and Pull with Passive Mode support

Support Gateways, User Name and Password Security, Stealth IP Address, virus immune OS LAN/WAN and Satellite data and control

Front Panel User Interface

LCD Display, 16 by 2 backlit (Contrast control via cursor up and down keys) Key Pad, Mode, Escape, Enter, Select, Cursor LED's, Power, Video, Drive, Link, Busy

Physical and Operational

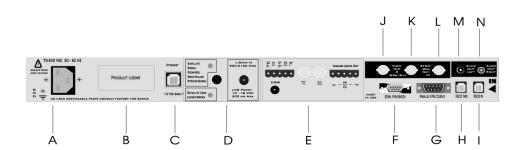
1 Rack Unit 19" 1.75" 14" (WHD)

482 mm 44 mm 355 mm (WHD)

70-240 VAC 50-60 Hz

65-Watts maximum power consumption 50/90 Degrees F, 30/70 RH

CE Certified



Soloist2-S SDI Rear Panel IO

Label	Description	Label	Description
Α	AC Main Power In	Н	RS232 Out (Loop)
В	Product Label Area		RS232 In
С	Fast Ethernet RJ-45	J	Composite Video Out (1)
D	L-Band Input and LED indicators (Optional)	K	Composite Video Out (2)
E	SDI IN/Out Cue and Tally	L	Sync or Genlock In
F	RS 422 Control Port	M	Unbalanced Audio Out
G	Parallel IO and Control Port	N	Unbalanced Audio Out