

Soloist 2-ASI Broadcast MPEG2 Player/Transcoder

FEATURES

- MPEG 2 Program to Transport Stream Transcoding
- Concurrent Analog Decoded and Compressed Transport Stream output
- Transcodes Stored or IP delivered streams
- Broadcast quality Full D1 MPEG 2 Decoding
- MP@ML Decoding only up to 10 Mega bits per second
- MP@ML Decoding and Transcoding up to 6 Mega bits per second from Hard Drive
- MP@ML Decoding and Transcoding up to 4 Mega bits per second from Ethernet
- Supports Constant and Variable bit rate
- Supports all half and three-quarter resolution
- Built in expandable storage
- Composite, YC, RGB and YUV analog video
- Genlock
- Balanced and unbalanced analog audio
- Serial, Ethernet and Parallel control
- Robust API for developers
- TCP/IP Ethernet protocol
- FTP Server and Client (Concurrent)
- EMT (ADTEC high speed Ethernet protocol)
- LAN and WAN support
- Supports control data distribution via the Internet
- Front panel LED status
- Supports NTSC, PAL, PALN and PALM standards
- Time Clock with NTP capabilities
- Symphony-Net application included
- Scheduling and Play list support
- Compliant with most any MPEG 2 program streams (*)
- ADTEC embedded real time operating system
- NOT PC based
- 1 rack unit chassis
- CE certification

*Please note the required encoding parameters under the specifications.

SPECIFICATIONS

Decoding Standar

MPEG 2 ISO/IEC 13818 MP@ML
MPEG 1 ISO/IEC 11172

Decoding Data Rates

MPEG 2 300 Kbits/s to 6 Mbits/s from Hard Drive
MPEG 2 300 Kbits/s to 3 Mbits/s from Ethernet
MPEG 1 56 Kbits/s to 5 Mbits/s

Decoded Streams

MPEG 2 Program (CBR)
MPEG 1 System
Elementary streams are not supported.

Transcoded Streams

MPEG 2 Program (CBR) to MPEG 2 Transport (TS) via ASI Interface

User Defined TS Variables

Video PID (PCR on Video)
Audio 1 PID
Audio 2 PID
Transport Stream ID
Program Number

Pictures Structure

I, IP, IBP, GOP from 1 to 15

Video Resolution NTSC

Horizontal: 720, 704, 640, 480, 352
Vertical: 480, 240
Color Frequency: 3,579,545 Hz

Video Resolution PAL

Horizontal: 720, 704, 640, 480, 352
Vertical: 576, 288
Color Frequency: 4,433,618.75 Hz

Video Resolution PAL-M

Horizontal: 720, 704, 640, 480, 352
Vertical: 480, 240
Color Frequency: 3,575,611.49 Hz

Video Resolution PAL-N

Horizontal: 720, 704, 640, 480, 352
Vertical: 576, 288
Color Frequency: 3,582,056.25 Hz

Video Sampling

4:2:0

Audio Decoding Type and Sampling

MPEG Layer 1 and Layer 2
44.1 KHz, 48 KHz
Mono, Dual Mono, Stereo or Joint Stereo

Audio Decoding Data Rates

MPEG Layer 1: 32 Kbits/s to 448 Kbits/s in 32 K steps
MPEG Layer 2: 64, 96, 112, 128, 160, 192, 224, 256, 320, 384 Kbits/s

Audio Services

Two Services (Stereo pairs)
Decoding of only 1 (MPEG)
Transcoding of AC-3 (Dolby Digital) and/or MPEG into TS

Analog V

Composite (2 BNC, 75 Ohm)
YC (4 Pin Din or 2 BNC, 75 Ohm)
RGB (4 BNC, 1 Composite Video, 75 Ohm)
Component (YUV, 4 BNC, 1 Composite Video, 75 Ohm)

Analog Video Inputs

Genlock (BNC, 75 Ohm)

Analog Audio Outputs

Unbalanced Stereo (2 RCA, 56 K Ohm)
Balanced Stereo (2 RST, 600 Ohm)

Compressed MPEG 2 Outputs

DVB-ASI (2 BNC, 75 Ohm)

Table Compliance

MPEG 2 PAT and PMT
DVB SDT, NIT

Platform

ADTEC Embedded system with:
Motorola Cold Fire 32 Bit RISC CPU
ADTEC Real Time Deterministic OS
10/100 Base T Fast Ethernet
TCP/IP With FTP Server and Client
EMT (ADTEC Ethernet Protocol)
Serial RS422, RS232 (Loop through)
Parallel (4 Bit, BCD)
Four IDE drive host interface

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