

TC4-2M2Axx

2-Channel H.264/MPEG-2 HD Transcoder Module



OVERVIEW

The 'TC4-2M2Axx' module series is a 2-channel H.264/MPEG-2 transcoder that can transcode and transrate programs to H.264 HD/SD or MPEG-2 SD video.

It is also capable of supporting AAC and AC3 audio encoding.

KEY FEATURES

- H.264 HD/SD or MPEG-2 SD video transcoding
- AAC or AC3 audio encoding
- Platform-based Modular Design

ORDERING INFORMATION

Model	Description
WAV-DMP-SMP-TC4-2M2A00	2-CH DMP-SMP H.264/MPEG-2 HD Transcoder Module
WAV-DMP-SMP-TC4-2M2A01	2-CH DMP-SMP H.264/MPEG-2 HD AC3/AAC Transcoder Module (Req. AC3 or AAC license)
WAV-DMP-SMP-TC4-AC3	AC3 License for TC4-2M2A01 - One per channel
WAV-DMP-SMP-TC4-AAC	AAC License for TC4-2M2A01 - One per channel
WAV-SMP100-CHASSIS	Chassis 1RU, embedded MUX and IP/ASI, 3 x slots
WAV-DMP900-CHASSIS	Chassis 1RU, embedded MUX, 6 x slots, Dual PSU, hot-swappable

SPECIFICATIONS

Channels

Video: 2 channels of HD/SD programs
Audio: 2 pairs of audio

Video Output / Encoding

H.264/AVC Profile (4:2:0): SD: MP/HP@L3.0
HD: MP/HP@L4.0
MPEG-2 Profile (4:2:0): SD: MP@ML

Resolution: 1920x1080@50i, 60i, 25p, 30p (Future)
1280x720@50p, 60p
720x576@50i
720x480@60i

Rescaling: HD to SD downconversion

Video Bitrate: 1 Mbps - 15 Mbps

Rate Control: CBR, VBR

GOP Structure: IBP, IBBP, IPPP

Aspect Ratio: Automatic
Manual: 16:9/4:3 to 4:3, 16:9 to 16:9

Audio Output / Encoding

Audio Profile: MPEG-1 Layer II
AC3
AAC (LC/HE)

Audio Bitrate: MPEG-1 Layer II: 64 - 384 Kbps
AC3: 32 - 504 Kbps (future option)
AAC: 32 - 504 Kbps (future option)

Audio Mode: Stereo (2.0, including downmix)

Audio Sampling Rate: 48 KHz

Audio Volume Level: 0-49 dB

Data Processing

Pass-through: Audio (MPEG1L2, AC3, AAC, etc.)
Ancillary Data
(CC, Teletext, DVB Subtitles, AFD, etc.)