

# 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-DMPSMP-TC4-2M2A00	2-CH DMP-SMP H.264/MPEG-2 HD Transcoder Module
WAV-DMPSMP-TC4-2M2A01	2-CH DMP-SMP H.264/MPEG-2 HD AC3/AAC Transcoder Module (Req. AC3 or AAC license)
WAV-DMPSMP-TC4-AC3	AC3 License for TC4-2M2A01 - One per channel
WAV-DMPSMP-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.)

