

TTR Describer Audio Description

TTR

Broadcast Audio Description



TTR Describer - Audio Description
The TTR audio description system is designed to decode the Fade bytes as required by the Audio Description Module (A.D.M) in the Digital Terrestrial (D.T.T) receiver whilst still in analogue audio form. Audio 1 and 2 carry standard left and right programming, whilst audio 3 carries the audio description commentary and audio 4 the audio description data. This allows broadcasters to transmit separate, pre-described audio to the home, provided enough extra bandwidth is available to broadcast two extra audio tracks. Ideal also in audio postproduction to monitor audio description being dubbed to tape. The audio data is re-clocked and converted to NRZ where an interrupt is generated from the data transitions. The data is decoded and an 8-bit wide fade byte is used to fade down audio1&2. The description audio is mixed to the audio 1&2 channels and re-output as left and right plus audio description. Two units are available using a common Module consisting of a single microcontroller and audio processor card. The 1U unit is for single channel Environments, like post production houses and the 3u unit is aimed at the multi-channel broadcasters allowing them to process up to 6 channels of audio description.

Features

- Decodes the Fade bytes of DTT signals
- Allows transmission of pre-described audio to the home
- Compact 1U format or 3U format for larger systems
- Low power consumption
- Supported and functional in the SDI domain

Specifications

AUDIO & DESCRIPTION DATA INPUT CHARACTERISTICS

- Input Impedance 20K Ohm
- Nominal Input Level 0dbu
- Maximum Input Level + 16 dbu
- Inputs 1x Audio for left programming
1x Audio for right programming
1x Audio description commentary
1x Audio description data

AUDIO OUTPUT CHARACTERISTICS

- Output impedance <100 Ohm
- Overall gain (fade byte FF) 0db
- Overall gain (fade byte 00) -48db
- Output noise <-70(CCIF Weighted)
- Distortion measured at +9db 1Khz <70db
- Outputs 1x Audio plus description
1x Audio plus description
1x Fade Byte

CONNECTION DETAILS

- Des-1U 1U rack mount version
- Input Audio 1 to 4 XLR female
- Output Audio L / R XLR male
- Des-3U 3U rack mount version
- Input Audio 15 way D-type female
- Output Audio 15 way D-type male

INSTALLATION DETAILS

- Package Height (mm) Width (mm) Weight (kg)
- Des-1U 44 19i 5kg
- Des-3U 134 19i 12kg
- Power supply 220-240V 50Hz
- Power consumption Des 1U - 5W, Des 3U - 80W (fully populated)
- Operating temperature 0 to +50 degrees Celsius

ORDER CODE

- Des-1U 1U rack format
- Des-3U 3U rack format
- Ext-1 Module accessory
- Con-1 Rear connectors

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