

Doteck

Doteck DMA Series

4 analog audio or 2 AES/EBU digital audio embedded/deembedded SDI fiber optic Transmission System



Features

- (1) CVBS, YC, YUV, SDI can be chose
- (2) Up to 4 channel analog audio, 2 channel AES/EBU digital audio embedded/deembedded SDI
- (3) Width video AGC, input video power 0.6V-1.6V, perfect digital clamping, and low level signal can be supported
- (4) Transmission distance up to 120 km without relay
- (5) 1310 nm, 1550 nm, CWDM or DWDM optic transmission mode can be chose, can be multi-channel transmitted with optical
- (6) support NTSC(525/60), or PAL(625/50) standard(auto sense)

Applications

Multimedia Studio

Broadcast video / audio equipment Link

Video Conference

Media Retrieval and Distribution

Introduction

Dotek DMA serial video/audio digital optic transmitter, output video signal can be CVBS、YUV or half of YC, also can be SDI digital video; input audio signal can be analog audio or digital audio AES/EBU, output system support the DVB SDI digital video signal.

When the input video signal for CVBS, YUV, YC,DMA can meet user high-quality transmission of analog video and audio signal, digital audio signal requirements, It also can input analog signal and output digital signal. When the input video signal for digital SDI video, DMA can meet user high-quality transmission of digital video and audio signals, analog audio signal requirements, It also can input digital signal and output analog signal.

Input analog video signal A/D converted into digital SDI signal, input analog audio signal A/D converted into digital signals, AES/EBU both audio signals are then embedded into the SDI digital video signal.

Technical Specification

Transmitter

Analog Audio Input	
Input Number of Channels	4
Max Input Level	17.4VP-P (+18dBm) or need
Frequency Width	20Hz—20 KHz
Impedance	600Ω
Connector	XLR
Digital Audio AES/EBU Input	
Input Number of Channels	2
Input Level	0.2 - 7.0Vp-p
Sample Frequency	32KHZ—108KHZ (20/24bit)
Impedance	110Ω
Connector	Balance link pin
Analog Video Input	
Input Signal	CVBS, YS, YUV can be chose
Input Level	0.6-1.6Vp-p
Impedance	75Ω
Connector	BNC
SDI Digital Video Input	
Input Signal Standard	4:2:2 SMPTE259M(270Mbps)
Input Level	800mVp-p±10%
Max Jitter	< 0.2UI(270Mbps)

Rise/Fall Time	< 0.8nS
Impedance	75Ω
Connector	BNC
Optic	
Wavelength	1310nm or 1550nm or etc
Transmission Power	-12dBm~3dBm SMPTE297M
Transmission Distance	0-50km or need
Connector	FC/PC or need
Number of RS232 Channel	2 channels <10kbit/s
Power	AC220V <20W
Dimension	19 inch 1U box 430x230x43

Receiver

Analog Audio Output	
Number of Channel	4
Operating Mode	Balance/Unbalance
Max output Level	17.4Vp-p@+18dBm
Frequency response	20HZ-20KHZ@-0.5dB
THD	<0.2%
Impedance	Low
Connector	TB or XLR
Digital Audio (AES/EBU) Output	
Number of Channel	2
Output Level	5Vp-p
Signal resolution	20bits, or 24bits
Sample Frequency	48KHZ
Data Jitter	<±20ns
Impedance	110Ω
Connector	TB or XLR
SDI Digital Video Output	
Number of Output Port	2
Output Signal Standard	4:2:2 SMPTE259M(270Mbps)
Output Level	800mVp-p±10%
Max Jitter	<0.2UI(270Mbps)
Rise/Fall Time	<0.8ns
Impedance	75Ω
Connector	BNC
Physical	
Dimension	44(H)×440(W)×300(D) (mm)
Power Supply	95 - 240VAC @0.6A

Operating Temperature	0 to +50 °C
Humidity	0 to 95% RH, non-condensing
Status Indicator	Power, optic link, Video, audio, data operating status

Analog Video

Output Level	1Vp-p
SNR	>70dB
Differential Gain	<1%
Differential Phase	<1 degree
Brightness Non-linearity	<1%
Bright Delay	<10NS
Bright Gain	<1%
Impedance	75Ω
Connector	BNC

Analog Audio

Max Output Level	17.4Vp-p(+18dBm)
SNR	>85dB(non-weighted)
THD	<0.2%
Frequency Response	20Hz-20KHz @-0.5dB
Insulation	>90dB@1KHz >90dB@20KHz

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