

Dotek

Dotek DMC Series

One SDI Digital Video or one Analog Video/4 Analog Audio or 2 AES/EBU Digital audio fiber optic Transmission System



Features

- (1) CVBS, YC, YUV, SDI can be selected
- (2) Up to 4 analog audio channels or 2 AES/EBU digital audio embedded/de-embedded
- (3) Width video AGC, input video power 0.6V-1.6V, perfect digital lock
- (4) Up to 100 km
- (5) 1310 nm, 1550 nm, CWDM or DWDM optic transmission mode available
- (6) support NTSC(525/60), or PAL(625/50) standard(auto sense)

Introduction

Dotek DMC series digital video or analog video(CVBS)with embedded /de-embedded digital or analog audio optic transmission system, one SDI

digital video or one analog video(CVBS、YUV or YC) can be input , embedding 4 analog audio or 2 AES/EBU digital audio and one SDI digital video and one analog video(CVBS、YUV or YC) can be output , de-embedding 4 analog audio or 2 AES/EBU digital audio.

Transmitter

Analog Audio Input	
Input Number of Channels	4
Max Input Level	17.4VP-P(+18dBm)
Frequency bandwidth	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	Terminal Block
Analog Video	
Channel	1
Signal Resolution	10 bits
Video Standard	525/625 Lines
Bandwidth	10MHz
Video Level	0.6—1.6Vp-p
SNR(Weighted)	>70dB
Differential Gain	<1%
Differential Phase	<1 Degree
Impedance	75 Ohm
Connector	BNC
SDI Digital Video Input	
Number of Channel	1
Input Signal Standard	4:2:2 SMPTE259M(270Mbps)
Input Level	>380mVp-p
Input Return Loss	>16db(270MHZ)
Input Auto Cable Equilibria	>250m(270Mbps)(BELDEN8281 cable)
Impedance	75Ω
Connector	BNC
SDI Digital Video Input (no audio embedded)	
Input Number of Channel	2
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
SDI Digital Video loop Output (audio embedded)	
Loop-through Number of Port	2
Loop-through Signal Standard	4:2:2 SMPTE259M(270Mbps)
Loop-through Level	800mVp-p±10%
Max Jitter	< 0.2UI(270Mbps)
Rise/Fall Time	<0.8ns
Impedance	75Ω
Connector	BNC
Optical Link	
Wavelength	1310nm or 1550nm
Optical Power	-12dBm~3dBm
Transmission Distance	0-100km
Connector	FC/PC
Power	220VAC power<20W
Dimension	43(H)×438(W)×230(D) (mm)

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	Terminal Block or XLR
Digital Audio (AES/EBU) Output	
Number of Channel	2
Output Level	5Vp-p
Coding Digit	20bits, 或 24bits
Sample Frequency	48KHZ
Data Jitter	<±20ns
Impedance	110Ω
Connector	Terminal Block 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	43(H)×438(W)×230(D) (mm)
Power	95-240VAC @ 0.6A
Operating Temperature	0-+50 °C
Humidity	0-95% RH,non-condensing
Status Indicators	Power,optic link, video, audio, data operating status

General Specification

Analog Video	
Output Level	1Vp-p
SNR	>70dB
Differential Gain	<1%
Differential Phase	<1 degree
Brightness non-Linetype	<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 Respond	20Hz-20KHz@-0.5dB
Insulation	>90dB@1KHz >90dB@20KHz
Input/Output Impedance	600/600 Ohm(Balanced)
Connector	XLR

Dotek 多铁克

Dotek Digital Technologies

Room 11C, 25C, Building 2, International Incubation Zone, No. 2, Shangdi Info Road, Haidian District, BEIJING, CHINA, Postcode: 100085

Tel: +86-10-62120151

FAX: +86-10-82893162

e-mail: Dotek@126.com

Welcome to visit our website for more info: www.dotek.com