RGB Signal Line Drive

TS-9120

Description

In the multimedia application system, it usually requires the display terminal to display high-definition quality picture in long distance, thus we designed this video signal pre-emphasis drive TS-9120, which can achieve 120 meters long distance transmission under high bandwidth (400Mpixel band wide), high quality ,to avoid signal interference or attenuation during signal transmission; and to improve the image signal distortion, such as ghosting, trailing.

Features

* Support signal formats: RGBHV, RsGsBs, YPbPr/YCbCr.
* Support front segment adjustable pre-emphasis processing for video signal brightness and sharpness.
* Support (pixel band wide) @-3dB 400M bandwidth. All outputs the perfect support for Full HD 1920x1200@60Hz or 1920x1080p@60Hz.
* Support for the ideal reduction maximum transmission distance is 120 meters (1024x768@60).
* HV input impedance select button, select 510R or 75R input matching.

Specifications

Model	TS-9120
Video Input	
Interface	15-pin HD female interface
Signal Intensity	1Vpp The signal intensity or S-video in the Y component video, composite video;
	0.7Vpp RGB (computer signal); 0.3Vpp component video in Cb/Cr or Pb/Pr, S-video C
Minimum / Maximum Level Analog Signal:	analog signal: 0.5V ~ 2.0Vpp
Impedance	75Ω
The Return Loss	-30dB@5MHz
Synchronous	0.3V-0.4Vpp
Maximum DC Offset Error	15mV
Long Distance Driving Interface Part Video	
Gain	The minimum 0.2dB (0~10MHz bandwidth)
	The maximum 1.8dB (~ (0 10MHz bandwidth)
	The minimum 0.4dB (10M ~ 400MHz bandwidth)
	The maximum >6dB (10 ~ 400MHz)
Differential Phase Error	<2.0 degrees, 3.58MHz (compensation file only 40 meters below.)
Differential Gain Error	0.3%, 3.58-4.43MHz(compensation file only 40 meters below.)
The Maximum Transmission Delay 5nS	5nS (±1nS)
Signal Types	RGBHV, RGBS, RGsB, RsGsBs, YPbPr/YCbCr, S-Video, composite video signal (CVBS)
Long Distance Driving Part Video Output	
Interface	BNC femaleinterface
Minimum / Maximum Level	analog signal: 0.5V ~ 2.0Vpp
Impedance	75Ω
Return loss	-30dB@5MHz
DC Compensation	MAX±5mV
Synchronous Signal	
Input / Output type	RGBHV, RGBS, RGsB, RsGsBs
The Input level	0.5V- 5.0Vpp,: 4.0Vpp(normal)
Output level	AGC-TTL: 5Vpp (unloaded)
Input Impedance	510Ω/ low resistance optional
Output Impedance	75 Ω (monitor output interface); 75Ω(line driver output interface)
Polarity	Positive or negative (fully consistent with the input)
Control Types	
Methods	Manual by selector, the subjective feelings prevail.
Specifications	
Power	DC 9V/1.5A
Temperature	-20℃~ +70℃
Humidity	10% ~ 90%
Install	Wall Mount
Dimension(mm)	163(L)× 156(W)× 32(H)