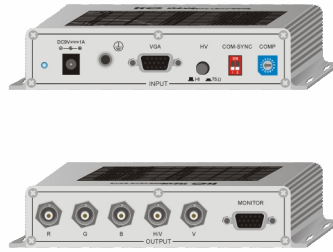




Long Line Driver

Embedded software: HD matrix input card embedded softwareV4.40 TS-9120

LINE#	GEAR	BANDWIDTH	RESOLUTION
11.9	D	400M	1920x1080@60
80	I	400M	1920x1200@60
31	E	400M	1920x1080@60
36	S	400M	1920x1080@60
45	A	300M	1800x1050@60
38	S	300M	1800x1050@60
40	A	300M	1800x1050@60
71	F	300M	1440x900@60
76	D	260M	1440x900@60
88	W	200M	1440x900@60
90	A	200M	1800x1050@60
98	B	180M	1280x1024@60
100	C	170M	1280x1024@60
112	D	160M	1024x768@60
117	E	150M	1024x768@60
180	F	140M	1024x768@60



Description:

For multimedia application systems, a display terminal is usually required for HD picture quality within a relatively long distance application range. And the TS-9120 front-end video signal pre-emphasis driver is designed to solve these kind of engineering problems. It can realize high-bandwidth (400Mpixel bandwidth), high-quality, and 120-meter long-distance video signal transmission, while ensuring no interference and no attenuation during the transmission. It can effectively reduce the distortion of computer image signals in long-distance transmission, such as image tailing, image ghosting, etc.

Feature:

- * Support signal formats: RGBHV, RsGsBs, YPbPr/YCbCr.
- * Support simultaneous front-end segmental adjustable pre-emphasis processing on the brightness and sharpness of the video signals.
- * Support bandwidth 400M (pixel bandwidth)@-3dB. All output ports perfectly support Full HD 1920x1200@60Hz or 1920x1080p@60Hz .
- * The maximum transmission distance that supports the ideal restoration effect is 120 meters (1024x768@60 hours).
- * RGBHV input impedance selection button, 510R or 75R optional.

Specifications:

Model	TS-9120
Video input	
Interface	15-pin HD female interface 1Vpp component video or Y and composite video in S-video
Signal strength	0.7Vpp RGB (computer signal); 0.3Vpp Cb/Cr or Pb/Pr in component video, C in S-video
Min/max level	Analog signal: 0.5V ~ 2.0Vpp
Impedance	75 Ω
Return loss	-30dB@5MHz
Genlock	0.3V-0.4Vpp
Maximum DC offset error	15mV
Long line driver interface video	
Gain	Minimum 0.2dB (0~10MHz bandwidth) Maximum 1.8dB (0 ~ 10MHz bandwidth) Minimum 0.4dB (10M ~ 400MHz bandwidth) Maximum>6dB (10 ~ 400MHz)
Differential phase error	<2.0 degrees, 3.58MHz (only used for compensation below 40 meters)
Differential gain error	0.3%, 3.58-4.43MHz (only used for compensation below 40 meters)
Maximum transmission delay	5nS(±1nS)
Signal type	RGBHV, RGBS, RGSB, RsGsBs, YPbPr/YCbCr, S-Video, composite video signal (CVBS)
Long line drive video output	Long line drive video output
Interface	BNC female interface
Min/max level	Analog signal: 0.5V ~ 2.0Vpp
Impedance	75 Ω
Return loss	-30dB@5MHz
DC compensation	Maximum ±5mV
Sync signal	
Input/output type	RGBHV, RGBS, RGSB, RsGsBs
Input level	0.5V- 5.0Vpp, 4.0Vpp normal
Output level	AGC-TTL: 5Vpp, unloaded (unterminated)
Input impedance	510 Ω / low impedance optional
Output impedance	75 Ω (monitoring output interface part); 75 Ω (long line driver output interface part)
Polarity	Positive or negative (exactly consistent with the input)
Control	
Control mode	Manual gear selection, subject to subjective experience
Specification	
Input power	DC 9V 1.5A
Working temperature	-20°C~ +70°C
Ambient humidity	20%~80% relative humidity, no condensation
Installation	Hanging installation
Dimension	163×152×32mm (L×W×H)