TYPE: Sepitam-1V-VGA
One Channel HD Video Series

Product Introduction

Sepitam -1V-VGA is HD video series that transmit one channel VGA video from any source to any destination over fiber optical core(s). This product utilizes the most advanced high speed chip technology of digital video and optical fiber transceivers, uncompressed, synchronization, and high quality signal process.

Sepitam -1V-VGA is stable in hard condition and this good can be used in outdoor state without any degradation in the working quality*.*

Additionally, this high definition transceiver can be transmit a many VGA protocols with various resolution without any configuration in site. It is plug and play to use friendlier and easier.

Fundamental Features：

- ♦ Non-compression, high definition, full digital
- ♦ support all standards for Personal Computer VGA and WUXGA standard
- ♦ Identify and configure a variety of display modes automatically
- ♦ Supports UXGA 1600x1200 @ 60H, 500MHz bandwidth
- ♦ E-DDC Display Mode memory and remote reading display mode at any time to ensure correct loading supported
- ♦ Utilized WDM, DWDM, and CWDM in fiber technology transmitting
- ♦ Single/Multi Mode fiber can be used
- ♦ Without software setup, and support Plug and Play, hot swappable
- ♦ Industrial design, high reliability, high stability

Environmental Aspects:

- ♦ Working Temperature: -30 ℃ ~ +70 ℃
- ♦ Storage Temperature: -45 ℃ ～+95 ℃
- ♦ Relative humidity: 0~95% (Non-condensing)
- ♦ Input Voltage: AC85-260v/50Hz
- ♦ MTBF: More than 100000 hours
- ♦ Internal power consumption: Less than 1A on +5 volt

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Items		Description
Video interface features	input channel quantity	1 CH VGA + 1 CH DVI
	input electric level	0.7Vp-p，Typical，Max 1 .5Vp-p
	input video analog bandwidth	500MHz(3dB)
	input return loss	<-40dB @ 5MHz
	input impedance	75 Ω（Unbalance)
	physical interface	VGA interface
	output channel quantity	1 CH VGA + 1 CH DVI
	output electric level	0.7Vp-p，Typical，Max 1 .5Vp-p
	output DDC standard	DDC2/EDID 1.0/2.0
	Receiving line synchronization frequency	15KHz ～200KHz
	Receiving DDC electric level	5V TTL electric level
	Receiving physical interface	VGA
	Resolution & protocol	VGA　640x480 60、70、75、85Hz　　　　SVGA　800x600 60、70、75、85Hz XGA　1024x768 60、70、75、85Hz SXGA　1280x1024 60、70、75、85Hz UXGA　1600x1200 60Hz

		Interface Quantity		1 CH VGA + 1 CH DVI		
Fiber optical feature		Interface type		FC/ST (1 core)（2 core）or LC（4 core）		
		Fiber signal		SM/MM		
		Transmission distance		SM10/20/40/60KM/MM2KM		
		TX/RX wavelength		MM 850nm/SM（1310nm/1550nm）		
	type	TX wave-length(nm)	TX power dBm	RX sensitiv-ity dBm	Transmis-sion dis-tance Km	Fiber loss dBm/ Km	Fiber type LC/PC
	Multi-mode	850	-16.5~-15	-22	0~2	1	850nm (MM)
	Single mode	1310	-6~-3	-22	0~20	0.5	SM (9/125um)
		1550DFB	-1~+1	-22	0~40	0.25	MM (9/125um)
		1550DFB	-5~0	-28	0~60	0.25	SM (9/125um)

Power feature	Power source voltage	AC,DC 220V/110V、+24V
	Consumption	Below 6 w（Input:DC5V 1000mA）
System feature	Mean Time Between Failures（MTBF）	More than 100000 hours
Structure feature	Measurement （length x Width x high）	Standalone： 97.5mmX125mmX46mm 1U Rack-mounted： 482.6mmX235mmX44mm
	Material	Aluminum alloy
	Net weight	300g

Applications:

- ♦ CCTV and Security protection system

- ♦ Tele-Communication System

- ♦ Intelligent transportation supervisory system(ITS)

- ♦ Telemedicine

- ♦ E-learning & Campus monitoring

- ♦ Skyscraper Security Protection system

- ♦ Military Tele-Com projects

Technical Specification of

Sepitam-1V-VGA

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