SEPITAM

ONE STEP SMARTER

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1V1TTL-T/R

TYPE:

Sepitam-1V1TTL-T/R

Sepitam's fiber optic and Ethernet converters are engineered to support the seamless transmission of various services, including FXO/FXS, E1, audio, analog video, HDMI, USB, and serial data. Whether deployed over fiber optic or Ethernet networks, our solutions ensure reliable, high-quality communication for a wide range of applications.

- TYPE: Sepitam-1V1TTL-T/R
- Technical Specification of Sepitam-1V1TTL-T/R
- One Channel Video and One TTL Channel over Fiber Optic

Description:

The One Channel Analog Video and One TTL channel of our products, use advanced analog and digi- tal technologies for pursuing high performance TTL data transmission over fiber optic. The converter can send signals more than 100 kilometers on fiber.

This link work properly in critical (very high and too low) temperature environments and work for years without any degradation in expected quality.

This equipment is fully transparent from front-end video device perspective. Just one fiber core is used to transmit all mentioned signals which can be any kind of fiber ca- bles. The equipment also adopt non- compressed analog (video composite) signal in PAL or NTSC mode.

This Optical Transceiver is easily monitored by virtue of LED indication of working sta- tus and with out any electrical or optical regulation on site.

This product is released in standalone and rack-mount(2U/4U) packages.

Properties:

- FC and ST interface as fiber optic connector for your choice
- Stand-alone and Rack-mount (2U/4U Card-type) for your choice
- Sampling rate up to 20MSPS and uncompressed video transmission (NRZ method)
- supporting any kind of analog video signal
- Compatible with NTSC, PAL, and SECAM video signals
- LED indication of working status for monitoring real-time operation
- Modular industrial design ensuring reliability and flexibility

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

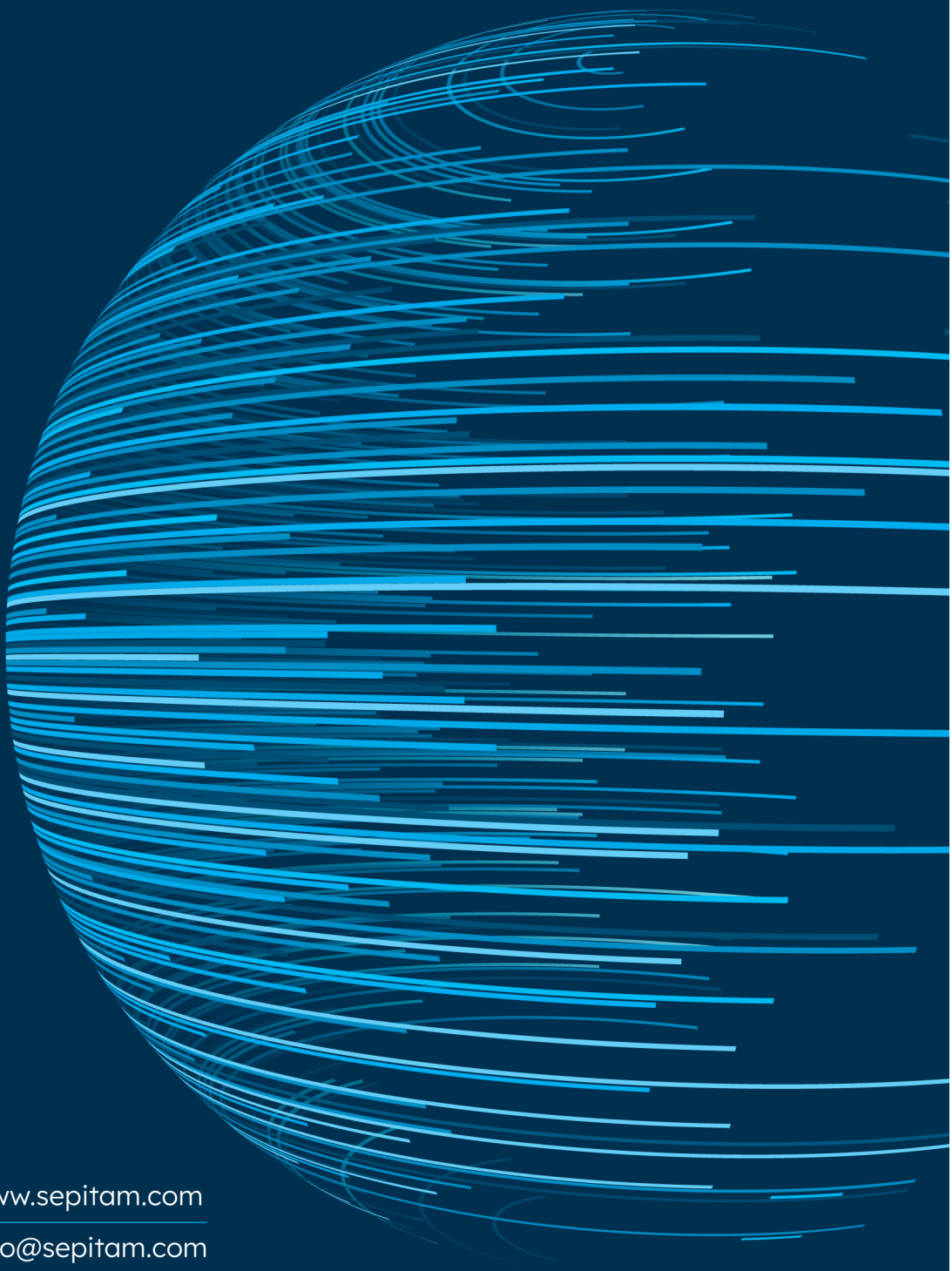
Specifications:

Model	Sepitam-1V1TTL-T/R
Link Budget	
Multi mode transmitters	
Fiber Type	62.5 um
Loss	1 (dBm/Km)
Maximum Transmission Distance	500 (meter)
Link power	-19.5 ~-16 (dBm)
Wavelength	850,1310 (nm)
Single mode transmitters	
Fiber Type	9/125um
Loss	0.5 (dBm/Km)

Model	Sepitam-1V1TTL-T/R
Maximum Transmission Distance	20KM 40KM 60KM 100KM
Link power	-8 ~ -5 (dBm) -8 ~ -3 (dBm) -3 ~-1 (dBm) 0 ~ +3 (dBm)
Wavelength	1310,1550 (nm)
Video Characteristics	
Interface	BNC
Input/ Output Impedance	75Ω (unbalanced)
Input/ Output Voltage	Peak value = 1V Max value = 1.2V
Band- width	10MHZ
Sampling	Up to 20MHz high speed sampling
Differential gain	(10%-90%APL) DG < 1% (Typical value)
Differential phase	(10%-90%APL） DP <0.8° (Typical value)
SNR	S/N ≥ 70dB
TTL Characteristics	
Interface	Phoenix terminal

Model	Sepitam-1V1TTL-T/R
Standard	TTL, LVTTL, COMS
Voltage level	3.3 V
Distance	15 m
Environmental Aspects	
Working Temperature	-20 ～+70 ℃
Storage Temperature	-25 ℃ ～+75 ℃
Relative humidity	0～95% (Non-condensing
Input Voltage	AC85-260v/50Hz
MTBF	More than 100000 hours
Internal power consumption	Less than 2A on +5 Volt

Technical Specification of
Sepitam-1V1TTL-T/R



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