

VIDEO OVER FIBER

RC-V1BD1A1T/R-C Series

1-CHANNEL DIGITALLY ENCODED VIDEO/ 1-CHANNEL BI-DIRECTIONAL DATA/ **1-CHANNEL BI-DIRECTIONAL AUDIO** TRANSMITTER AND RECEIVER MODULE



OVERVIEW

RC-V1BD1A1T/R-C series transmitter and receiver card module incorporates an all-digital encoding technology that transmits 1-channel 8-bit digitally encoded video, 1-channel bi-directional data and 1-channel bi-directional audio over one core singlemode or multimode fiber. The model is available as rack mountable cards that can be installed in Rancent's RC-300C 19" rack mount chassis. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations for different video transmission applications. The hot-pluggable and adjustment-free design ensures the convenience of the installation and operation.

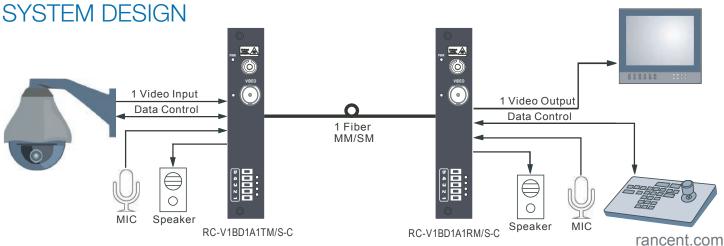
APPLICATIONS

- CCTV(Fixed Video)
- Intelligent transportation systems (ITS)
- Security and surveillance
- Access Control



FEATURES

- 8-Bit Digitally Encoded Uncompressed Transmission
- 24-Bit Digitally Encoded Audio Transmission
- Compatible with NTSC, PAL or SECAM Video Standards
- Simultaneous Transmission of Video, Data and Audio
- High Performance Laser-based Optics
- Plug-and-play Design with No Adjustment Required
- Local LED Indicators to Monitor System Status
- Wide Optical Dynamic Range
- No EMI, RFI, Cross Talk and Video Distortion
- Support up to 30KM
- No Video Degradation and Optical Attenuation
- Multimode or Singlemode Fiber
- Standalone or Rack Mount Options



RC-V1BD1A1TR-C Series

1-Channel Digital Encoded Video/1-channel Bi-directional Data / 1-Channel Bi-directional Audio Transmitter and Receiver Module

SPECIFICATIONS

Video

Video Input 1 volt pk-pk (75 ohms) Video Voltage Range 0.6~2.0Vp-p Video Input/Output Channels 1 Bandwidth 5 Hz to 8 MHz Bit Resolution 8-bit **Differential Gain** 1% **Differential Phase** <1° < 1% Tilt S/N Ratio > 60dB (Weighted)

Data

Data Protocol Data Rate Error Rate

Audio

Audio Impedance Max Input/Output Voltage Frequency Response Bit Resolution S/N Ratio

600 Ohms 2.0Vp-p 10Hz ~ 20KHz 24-bit > 95dB (Weighted)

RS485/RS422/RS232

0~300kps

10

Indicating LEDs

Optical

Wavelength

Optical Emitter Number of Fibers

Connectors

Optical Video Data/Audio/Contact Ethernet

General

Power Supply Size Construction: Finish: MTBF: Operating Temp Storage Temp Power Present Video Present

850/1310nm, MM 1310/1550nm, SM Laser Diode 1

ST or SC BNC Terminal Screws Shielded RJ45

DC5V 2A 170 x 129 x 20.5mm Aluminum Paint > 100,000 hours -35° C to + 65°C -40° C to +85°C

ORDING INFORMATION

Part Number	Description	Fiber	Optical PWR Budget	
RC-V1BD1A1TS-C	1 Video/1 Bi Data/1 Bi Audio TX Module	Singlemode	20dB	30KM
RC-V1BD1A1RS-C	1 Video/1 Bi Data/1 Bi Audio RX Module	Singlemode	20dB	30KM
RC-V1BD1A1TM-C	1 Video/1 Bi Data/1 Bi Audio TX Module	Multimode	14dB	3KM
RC-V1BD1A1RM-C	1 Video/1 Bi Data/1 Bi Audio RX Module	Multimode	14dB	3KM

*Optical transmission distance is limited to optical loss of the fiber and any additional lossintroduced by connectors, splices and patch panels.



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