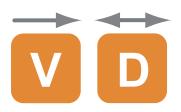


RC-V1BD1T/R-C Series

1-CHANNEL DIGITALLY ENCODED
VIDEO WITH 1-CHANNEL BI-DIRECTIONAL
DATA TRANSMITTER AND RECEIVER MODULE





OVERVIEW

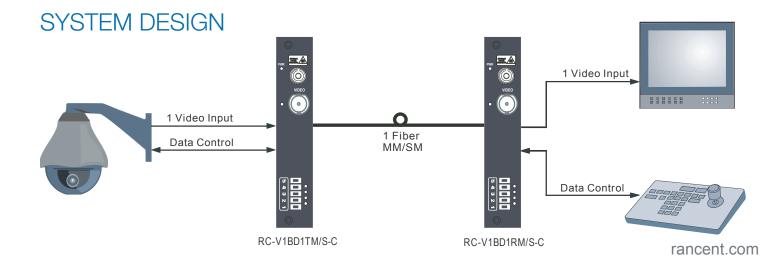
RC-V1BD1T/R-C series video transmitter and receiver card module incorporates an all-digital encoding technology that transmits 8-bit digitally encoded video and bi-directional data over one core singlemode or multimode fiber. The model is available as rack mountable cards that can be installed in Rancent's 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
- Compatible with NTSC, PAL or SECAM Video Standards
- Simultaneous Transmission of Video and Data
- Simplex or Full-duplex RS485 or RS422 Operation
- 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



RC-V1BD1TR-C Series

1-Channel Digital Encoded Video with 1-Channel Bi-Data Transmitter and Receiver Module

SPECIFICATIONS

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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°
Tilt < 1%

S/N Ratio > 60dB (Weighted)

Data

Data Protocol RS485/RS422/RS232

Data Rate 0~300kps

Data Channels 1 (Bi-directional)

Error Rate 10

Indicating LEDs Power Present

Video Present

Optical

Wavelength 850/1310nm, MM 1310/1550nm, SM

Optical Emitter Laser Diode

Optical Emitter Laser Diode

Number of Fibers 1

Connectors

Optical ST or SC Video BNC

General

Power Supply DC5V 2A

Size 170 x 129 x 20.5mm

Construction: Aluminum Finish: Paint

MTBF: > 100,000 hoursOperating Temp $-35^{\circ} \text{ C to} + 65^{\circ} \text{C}$ Storage Temp $-40^{\circ} \text{ C to} + 85^{\circ} \text{C}$

ORDING INFORMATION

Part Number	Description	Fiber	Optical PWR Budget	
	1 Video/1 Bi Data TX Module	Singlemode	20dB	30KM
RC-V1BD1RS-C	1 Video/1 Bi Data RX Module	Singlemode	20dB	30KM
RC-V1BD1TM-C	1 Video/1 Bi Data TX Module	Multimode	14dB	3KM
RC-V1BD1RM-C	1 Video/1 Bi Data 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.

