

RC-V1BD1A1TR-HDMI Series

1-CHANNEL NON-COMPRESSED HDMI /
1-CHANNEL BI-DIRECTIONAL DATA /
1-CHANNEL FORWARD AUDIO TRANSCIEVER



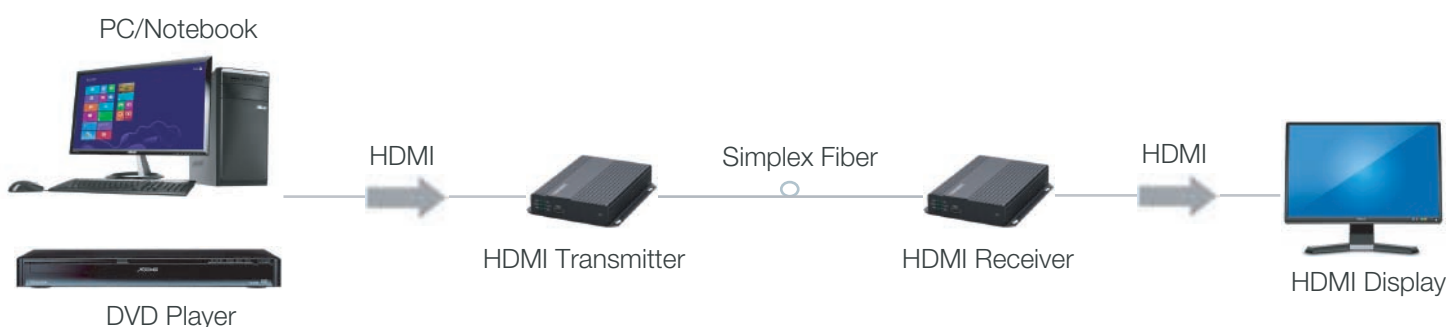
OVERVIEW

RC-V1BD1A1TR-HDMI Series HDMI transmitter & receiver is designed to send one channel of 1.3/1.4 compliant HDMI video, one channel of bi-directional RS232 or reverse RS485, one channel of forward audio, one PC port and two USB ports for keyboard & mouse control over one core singlemode or multimode fiber. Fully compliant with all the video resolutions up to 1080p,60Hz, these models ensure the highest performance for most demanding digital video and broadcast applications. The hot-pluggable and adjustment-free design ensures the convenience of the installation and operation. The modules are available in either standalone or rack mount versions.

APPLICATIONS

- Digital broadcast television systems
- Digital video distribution systems
- Extremely high quality video conferencing
- Concert & sporting event video displays

SYSTEM DESIGN



FEATURES

- Extend HDMI video up to 1080p, 60Hz
- Graphic resolutions up to 1920x1080 over one fiber
- Uses all-digital processing & transmission for crystal-clear signals and no color skewing
- HDMI 1.2/1.3/1.4 and HDCP 1.1/1.2 standard compliant
- No settings or adjustments necessary
- Simultaneous transmission of Bi-Data and Forward Audio
- Two USB ports for keyboard & mouse control
- Diagnostic LEDs for power and link activity status
- Built-in ESD protection system
- Available for both singlemode and multimode applications
- Multimode distances available in excess of 500 meters
- Singlemode unit supports distances up to 30km

RC-V1BD1A1TR-HDMI Series

1-Channel Non-compressed HDMI / 1-Channel Bi-directional Data / 1-Channel Forward Audio Transceiver

SPECIFICATIONS

HDMI

Signal Type	HDMI HDMI 1.2/1.3/1.4 & HDCP 1.1/1.2/1.3/1.4
Video Resolution	1280x720@50Hz, 1280x720@60Hz, 1920x1080(1080I)@50Hz, 1920x1080(1080I)@60Hz, 1920x1080(1080P)@50Hz, 1920x1080(1080P)@60Hz

Data

Data Protocol	RS232/RS485
Data Rate	0~120kps

Optical

Wavelength	1310/1550nm
Optical Emitter	SFP Laser
Optical Fiber	9/125u single mode
Number of Fibers	1

Audio

Signal Type	Standard 3.5mm Stereo Audio
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Connector

Optical	LC
Video&Audio	HDMI
Audio	3.5mm Audio Jack Port
Data	Terminal Screws
USB	Standard USB (Mouse/Keyboard)

General

Power Supply	DC12V 1A
Size	152 ×130 ×28.8mm
Construction:	Aluminum
Finish:	Paint
MTBF:	> 100,000 hours
Operating Temp:	-35° C to +65°C
Storage Temp:	-45° C to +85°C

ORDERING INFORMATION

Part Number	Description	Fiber	Optical PWR Budget	Max Distance
RC-V1BD1A1TS-HDMI	1-CH HDMI with 1-CH Bi-Data/1-CH Forward Audio TX	SM	20dB	30KM
RC-V1BD1A1RS-HDMI	1-CH HDMI with 1-CH Bi-Data/1-CH Forward Audio RX	SM	20dB	30KM
RC-V1BD1A1TM-HDMI	1-CH HDMI with 1-CH Bi-Data/1-CH Forward Audio TX	MM	10dB	500M
RC-V1BD1A1RM-HDMI	1-CH HDMI with 1-CH Bi-Data/1-CH Forward Audio RX	MM	10dB	500M

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