

RC-V1TR-DVI Series

1-CHANNEL COMPRESSED DVI TRANSCEIVER



OVERVIEW

RC-V1TR-DVI Series DVI transmitter & receiver is designed to send one channel of compressed 1.2/1.3 compliant DVI video with two USB ports for keyboard & mouse control over one core single mode 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.

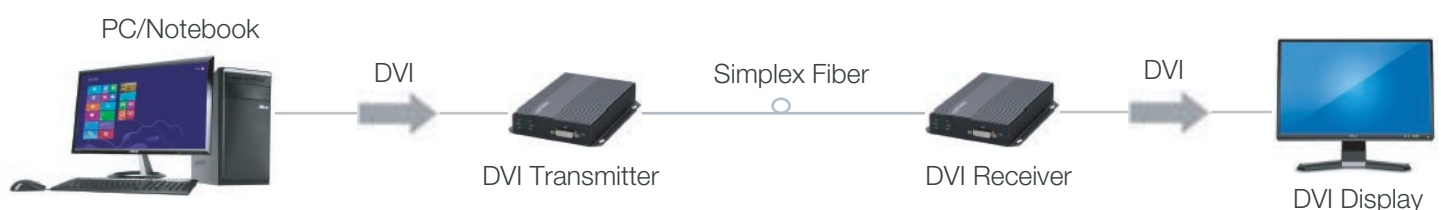
APPLICATIONS

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

FEATURES

- MJPEG compressed DVI transmission
- Extend DVI 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
- DVI 1.2/1.3 and HDCP 1.1/1.2 standard compliant
- No settings or adjustments necessary
- Diagnostic LEDs for power and link activity status
- Built-in ESD protection system
- Support point-to-point and cascading applications
- Available for both singlemode and multimode applications
- Multimode distances available in excess of 500 meters
- Singlemode unit supports distances up to 30km

SYSTEM DESIGN



RC-V1TR-DVI Series

1-Channel Compressed DVI Transceiver

SPECIFICATIONS

DVI

Signal Type	DVI DVI 1.2/1.3 & HDCP 1.1/1.2
Video Resolution	VES@CEA-861 640x480, 720x576, 800x600, 1024x600, 1024x768, 1152x864, 1280x600, 1280x720, 1280x768 1280x800, 1280x960, 1280x1024, 1440x1050, 1440x900, 1600x900, 1660x1200, 1680x1050, 1920x1080
Protocol	TCP/IP

Connector

Optical	ST
Video&Audio	DVI

Optical

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

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-V1TS-DVI	1-CH Compressed DVI TX	SM	20dB	30KM
RC-V1RS-DVI	1-CH Compressed DVI RX	SM	20dB	30KM
RC-V1TM-DVI	1-CH Compressed DVI TX	MM	10dB	500M
RC-V1RM-DVI	1-CH Compressed DVI 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.