RC-V1KMTR-HDMI Series

1-CHANNEL COMPRESSED HDMI WITH KEYBOARD AND MOUSE CONTROL TRANSCEIVER

HDMI **K** **M**

OVERVIEW

RC-V1KMTR-HDMI Series HDMI transmitter & receiver is designed to send one channel of compressed 1.3/1.4 compliant HDMI 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.
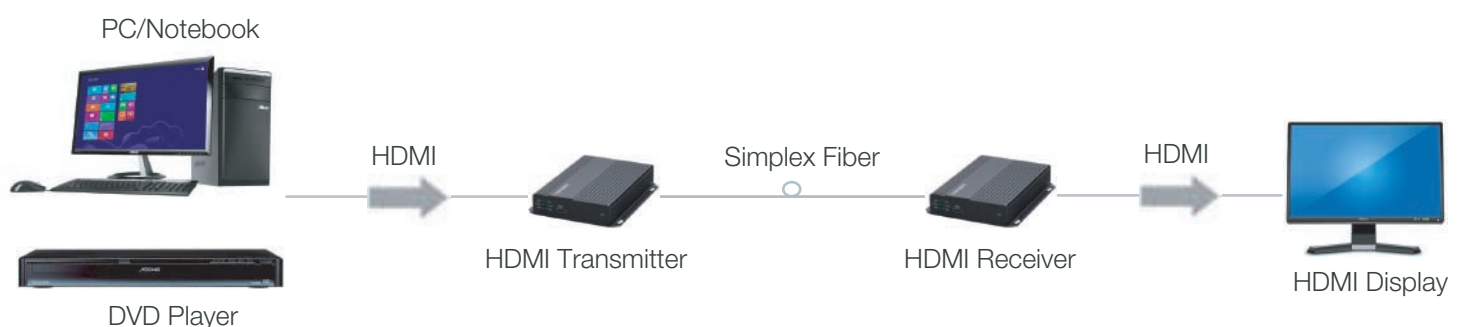
APPLICATIONS

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

FEATURES

- MJPEG compressed HDMI transmission
- 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
- Two USB ports for keyboard & mouse control
- 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

PC/Notebook

HDMI   Simplex Fiber   HDMI

HDMI Transmitter   HDMI Receiver   HDMI Display

DVD Player

RC-V1KMTR-HDMI Series
1-Channel Compressed HDMI with Keyboard & Mouse Control Transceiver

SPECIFICATIONS

HDMI

Signal Type	HDMI
	HDMI 1.2/1.3/1.4 & 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

Optical

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

Connector

Optical	ST
Video&Audio	HDMI
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-V1KMTS-HDMI	1-CH HDMI with Keyboard & Mouse Control TX	SM	20dB	30KM
RC-V1KMRS-HDMI	1-CH HDMI with Keyboard & Mouse Control RX	SM	20dB	30KM
RC-V1KMTM-HDMI	1-CH HDMI with Keyboard & Mouse Control TX	MM	10dB	500M
RC-V1KMRM-HDMI	1-CH HDMI with Keyboard & Mouse Control RX	MM	10dB	500M

*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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TECHNOLOGIES