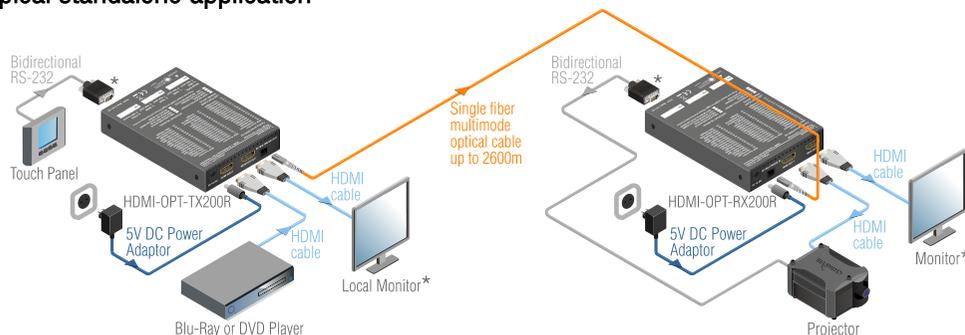


Introduction

The HDMI-OPT-TX200R is a HDMI and RS-232 transmitter device, providing signal extension over a single multimode fiber cable. It includes an EDID management function, which is configurable on the front panel.

Typical standalone application



HDMI-OPT-TX200R and RX200R extender pair

Installation

1. Connect the source (e.g. Blu-Ray Player) to the HDMI INPUT connector.
2. You can connect a local display (e.g. monitor) to the MONITOR OUT connector.
3. Remove the dust cap from the SC connector.
4. Connect a compatible Lightware receiver device¹ to the SC MULTIMODE OUT connector with a single multimode fiber cable.
5. Optionally connect a serial device to the RS-232 female receptacle.
6. Supply the unit with the attached +5V 1A DC adaptor.

Status LEDs in PRIMARY (SOLID) mode

HDCP ENCRYPTED CONTENT — Indicates if the source signal is HDCP encrypted.

HDMI SIGNAL — Indicates the type of the video signal. In case of an HDMI signal the LED lights continuously. In case of a DVI signal the LED is off and the VIDEO CLOCK PRESENT LED is lights continuously.

VIDEO CLOCK PRESENT — Indicates if a valid video clock signal is present on the transmitters' HDMI INPUT.

LINK – RECEIVER DETECTED — Indicates if a powered receiver (e.g. HDMI-OPT-RX200R) is connected to the transmitter and they can communicate over the fiber optical cable.

¹ Please check the Fiber Extension Cross Compatibility Table in the www.lightware.eu website

Status LEDs in SECONDARY (BLINKING) mode

EMULATED EDID INVALID

- Function 1: The LED lights red if the selected EDID is invalid or empty memory selected.
- Function 2: After applying a Hot Plug signal(s) to the OUTPUT(s), this LED indicates that the unit is trying to read the EDID from the connected display device, but the EDID is invalid or missing.
- Function 3: After pressing the LEARN button, this LED's blinking indicates if the learn process was unsuccessful.

EMULATED EDID VALID

- Function 1: The LED lights green if the selected EDID is valid.
- Function 2: After applying a Hot Plug signal(s) to the OUTPUT(s), this LED indicates that the unit is reading the EDID from the connected display device and the EDID is valid.
- Function 3: After pressing the LEARN button, this LED's blinking indicates if the learn process was successful.

MONITOR OUT HOTPLUG SENSE

Indicates if a powered display device (or matrix switcher, etc.) is connected to the HDMI output connector and sends a valid hotplug signal on pin 19 through the HDMI cable.

SOURCE +5V SENSE

Indicates if a powered source unit (computer, Blu-Ray player, etc.) is connected to the HDMI INPUT connector and sends a valid +5V signal on pin 18 through the HDMI cable.

Change Status LEDs' function

Press the LEARN button to switch between PRIMARY (SOLID) and SECONDARY (BLINKING) mode.

Selecting and EDID

1. Turn the EDID ADDRESS rotary switches to the desired position.
The available factory preset EDIDs are listed on the top of the device.
2. The EDID Status LEDs provide feedback in SECONDARY (BLINKING) mode:
 - Red blinking: an empty memory or invalid EDID was selected.
 - Green blinking: valid EDID is present at input.
3. Now the selected EDID is reported at the HDMI INPUT.

EDID Memory

The factory preset EDIDs are listed on the top of the device (#01..#50) which support various embedded audio formats for HDMI audio. Memory range #51..#99 is user programmable.

Address #00 contains a copy of the last attached monitor's EDID from MONITOR OUT, and memory #49 contains the Lightware UNIVERSAL EDID.

Learning EDID

1. To see EDID status, check if the Status LEDs are in SECONDARY (BLINKING) mode,
2. Turn the EDID ADDRESS rotary switches to the desired position, where you want to store the attached display's EDID from the MONITOR OUT (between user addresses #51..#99),
3. Connect the sink device to the MONITOR OUT with single multimode fiber cable,
4. Press and hold the LEARN button for approximately 2 seconds,
5. The EDID Status LEDs provide feedback in SECONDARY (BLINKING) mode:
 - Red blinking: the learn process failed from DDC OUT.
 - Green blinking: the learn process was successful from DDC OUT.

Connect to the computer to use Lightware's Advanced EDID Management

1. Turn the BAUD RATE rotary switch to the #9 (SW Control) position,
2. Connect the device to the computer by a straight (male - female) serial cable,
3. Start Lightware Matrix Control Software to access advanced settings.

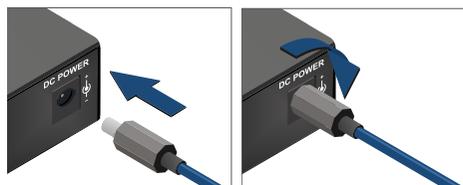
RS232 extension mode – setup the serial baud rate

Turn the BAUD RATE rotary switch to the desired position (0..4) to select the speed of the extended serial communication.

0:	9600	1:	14400	2:	19200	3:	38400	4:	57600
5:	Not used	6:	Not used	7:	Not used	8:	Not used	9:	SW Cont.

Info: To select the best fitting baud rate please read the user's manual of serial devices.

Locking DC plug



Locking DC plug: Twist 90° clockwise to lock

Front and Back view

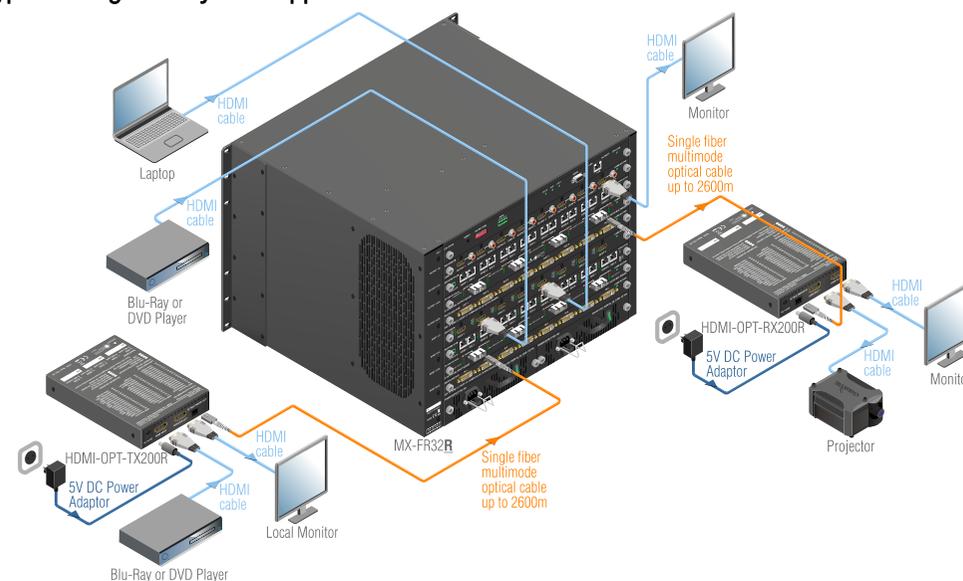


HDMI-OPT-TX200R front view



HDMI-OPT-TX200R back view

Typical integrated system application



HDMI-OPT extender pair with Lightware Hybrid Matrix