DisplayPort Extender over CATx Cable
with IR Extension

EVBPR-M107 (70M)
EVBPR-M110 (100M)

Rextron

□ The final specification is the actual product based.
□ Features and functions may be added or changed after the manual was written. Please visit our website to download the latest version of manual for reference.

PP5-TLPR32Z-000   CE FC RoHS

Specifications

Pair Model	Transmitter	Receiver
EVBPR-M107	**EVBPR-107L**	**EVBPR-107R**
EVBPR-M110	**EVBPR-110L**	**EVBPR-110R**
Input	DisplayPort x 1	RJ-45 x 1
Output	RJ-45 x 1	DisplayPort x 1
LED (Power / Video Status)	x 1 (Multi-Color)	x 1 (Multi-Color)
Video Resolution (Max.)	WQXGA (2560 x 1600 @ 60Hz) Full HD (1920 x 1080 @ 60Hz)	
Extension Distance **EVBPR-M107**	WQXGA (2560 x 1600) @ 35M Full HD (1920 x 1080) @ 70M	
Extension Distance **EVBPR-M110**	WQXGA (2560 x 1600) @ 70M Full HD (1920 x 1080) @ 100M	
Enclosure	Metal	
Power Supply	DC 12V (either unit)	

*Above video resolution and extension distance are based on a single CATx 24AWG solid cable without cascade. STP cabling is recommended for environments with high EMI or RFI. For the best performance results, using stranded cabling or other thinner cables, and coiling of excess cable lengths should be avoided
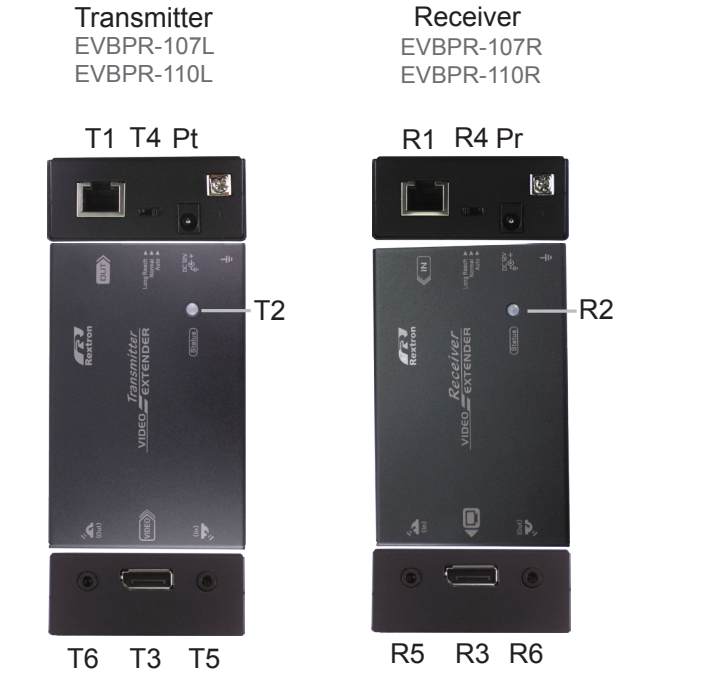
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Product Description

Transmitter
EVBPR-107L
EVBPR-110L

T1 T4 Pt

— T2

T6   T3   T5

Receiver
EVBPR-107R
EVBPR-110R

R1   R4 Pr

— R2

R5   R3   R6

T1	R1	RJ-45 Jack	Use a CATx cable for connection between two units
T2	R2	LED Indicator	Please see **LED Indicator** Section
T3	R3	DP connector	[T3] connects with PC [R3] connects with Display
T4	R4	Slide Switch	HDBaseT™ Mode Switch
T5	R5	IR Remote Jack	(IR in) Connect to IR Receiver / Sensor
T6	R6	IR Remote Jack	(IR Out) Connect to IR Transmitter / Blaster
Pt		Power Supply	(optional) Apply power from power supplier to the unit
Pr		Power Supply	Apply power from power supplier to the unit

Features

● Extend DisplayPort signal up to 70 / 100 meters
● Uses HDBaseT™ technology
● Support Phantom Power-- single power supply at either one end of two units (Tx & Rx)
● EDID Migration ensures the optimum video performance
● Support resolutions up to WQXGA and Full HD1080p
● 3D TV, HDTV compatible; and support most of the popular screen resolution to XGA, SXGA, UXGA, WSXGA … Full HD, WUXGA, WQHD and WQXGA system
● HDCP compliant and Blu-ray ready
● Plug-and-Play system without any drivers or software installation
● Diversified and flexible video input and output selection allowing users to select HDMI or DisplayPort to the extension system

Package Contents

● DisplayPort Extender Transmitter Unit	x 1
● DisplayPort Extender Receiver Unit	x 1
● Power Adapter Set (option)	x 1 set / pc
Power Adapter with necessary AC Cord	
or	
Plug-in Power Adapter	
● CAT5 cable	x 1
● User's Manual	x 1
● Foot Pad Set	x 2

Installation

● Prior to installation, ensure to power off all devices that will be connected to this system.
● Ensure that all devices you will connect are properly grounded.
● Place cables away from fluorescent lights, air conditioners, and machines that are likely to generate electrical noise.

Step 1. Users can connect the video source to the Transmitter Unit, connect the monitor to the Receiver Unit.
Step 2. Use a CAT5e/6 cable (EIA / TIA 568B industry standard compliant) for the connection between the Transmitter (RJ45 Port) and Receiver Unit (RJ45 Port) .
Step 3. All device connections are completed, connect the provided power cord into an appropriate power source and plug the opposite end into the power connector* on the Unit to power up.

CAUTION: The CAT5e/6 cables that connect the Transmitter and Receiver Units carry electrical current and should not be plugged in to other devices, as they may cause damage. We strongly recommend marking the CAT5e/6 cables you are using with this product at both locations for easy identification.

NOTE:
1. DisplayPort 1.1 **Type 2** supports new data rate letting display's resolution above 1080p.
2. If the video source has multiple output interfaces, configure the audio output setting to enable the DisplayPort Audio Function.

Operation

The LEDs on the Extender Units show the real-time status indicating the linking and communication between the Transmitter Unit and Receiver Unit. Users can identify the present status through the LED indicator on the top.
The quality of the output signal will depend largely upon the quality of video source, cable and display device used. Low quality cables degrade output signal causing elevated noise levels. Please use the proper cable and make sure the display device is capable of handling the resolution and refresh rate selected.

NOTE:

The system will disable the video output signal when it detects non-HDCP compliant display(s) on playing the HDCP video source. All the connected output displays MUST be HDCP compliant, when the video source is HDCP compliant.

HDBaseT™ Mode Switch

Mode	Description
Auto	When monitor is not detected, the system will turn into "Power-Saving" mode.
Normal	The system will work in HDBaseT™ and never enter in "Power-Saving" mode.
Long Reach (EVBPR-M110 only)	Maximum bandwidth decrease to 148.5MHz (1080p / 8bpc), but cable length will increase to 150M (depends on the cable quality).

NOTE: If two units switch to different mode, the system will follow mode priority (Long Reach, Normal, Auto).

Tx \ Rx	Auto	Normal	Long Reach
Auto	Auto	Nornal	Long Reach
Normal	Nornal	Nornal	Long Reach
Long Reach	Long Reach	Long Reach	Long Reach

LED Indicator

System Status	LED Indicator
Power ON	Steady Green (Transmitter) Steady Red (Receiver)
Non-HDCP	Emit Blue and go off 3 times
HDCP syncing	Emit Purple and go off 3 times
HDCP Non-Matching (Rx only)	Emit Purple and go off twice + flash Red once

Mode Status*	LED Indicator
Auto (Power-Saving)	Flash Blue twice
Normal	Emit Blue and flash Green once
Long-Reach	Emit Blue and flash Green twice

NOTE:
* When video source and / or monitor is not detected, the LED indicator will show which mode the system used.

Connection Pattern