

kramer EXT3-XR-TR DMI Extender with USB Ethernet User Guide

Home » Kramer » kramer EXT3-XR-TR DMI Extender with USB Ethernet User Guide

Contents 1 kramer EXT3-XR-TR DMI Extender with USB Ethernet 2 Product Information 3 Product Usage Instructions 4 Documents / Resources 4.1 References 5 Related Posts



kramer EXT3-XR-TR DMI Extender with USB Ethernet



Product Information

Product Name	EXT3-XR-TR 4K60 HDMI/USB Extender
Manufacturer	Kramer Electronics Ltd.
Product Features	The EXT3-XR-TR is a versatile HDMI/USB extender device that can function as a transmitter or a receiver. It supports 4K60 resolution and allows for the extension of HDMI and USB signals over long distances. The device also features HDBT Range Mode for different range settings, USB connectivity for peripheral devices, LED indicators for status monitoring, multiple connectors for various inputs and outputs, and support for IR and RS-232 control.

Product Usage Instructions

Step 1: Check what's in the box

- EXT3-XR-TR 4K60 HDMI/USB Extender
- 1 Power adapter and cord
- 1 Bracket set
- 4 Rubber feet
- 1 Quick start guide

Step 2: Get to know your EXT3-XR-TR

Feature	Function
1	SETUP 2-way DIP-switch
2	HOST USB B 2.0 Connector
3	ACTIVE HOST LED
4	ACTIVE Rx LED
5	IN LED
6	OUT LED
7	TX LOOP
8	LINK LED
9	ON LED
10	HDBT RJ-45 Connector
11	HDMI TX IN Connector
12	HDMI Rx OUT/Tx LOOP Connector
13	USB A 2.0 Connector 1
14	USB A 2.0 Connectors 2-3
15	IR 3.5mm Mini Jack Connector
16	RS-232 3-pin Terminal Block
17	ETHERNET RJ-45 Connector
18	SETUP 4-way DIP-switch
19	12V DC Power Connector

Step 3: Download the full user manual and check for firmware upgrades

Go to www.kramerav.com/downloads/EXT3-XR-TR

to download the latest user manual and check if firmware upgrades are available.

Step 4: Connect inputs and outputs

- Connect the HDBT RJ-45 connector on a paired receiver/transmitter device to the HDBT RJ-45 connector on the EXT3-XR-TR.
- In transmitter mode, connect an HDMI source to the HDMI TX IN connector.
- In receiver mode, connect an HDMI acceptor to the HDMI Rx OUT/Tx LOOP connector.
- Connect USB peripheral devices to the USB connectors depending on their type and purpose.
- If required, connect an external IR emitter or IR sensor to the IR 3.5mm Mini Jack Connector for IR control.
- If required, connect a controller device to the RS-232 3-pin Terminal Block for remote device control via serial connection.
- Connect to the LAN using the ETHERNET RJ-45 Connector.
- Set the desired device behavior using the SETUP DIP-switches.

• Finally, connect the power supply to the 12V DC Power Connector.



EXT3-XR-TR Quick Start Guide

This guide helps you install and use your EXT3-XR-TR for the first time.

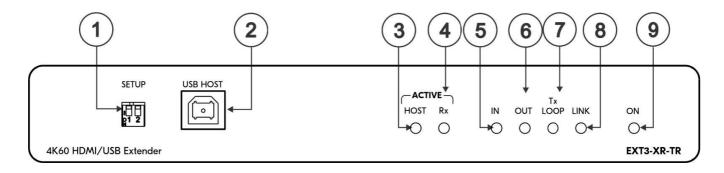
Go to www.kramerav.com/downloads/EXT3-XR-TR to download the latest user manual and check if firmware upgrades are available.

Step 1: Check what's in the box

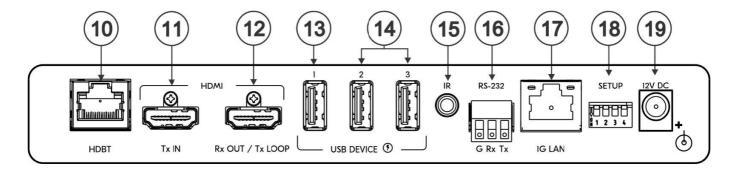
- EXT3-XR-TR 4K60 HDMI/USB Extender
- 1 Power adapter and cord
- 1 Bracket set
- 4 Rubber feet
- 1 Quick start guide

Step 2: Get to know your EXT3-XR-TR

The extender device functions as a transmitter or a receiver side per DIP-switch setting (see Step 4:Connect inputs and outputs).



#	Feature	Function			
1	SETUP 2-way DIP-switch	Set the HDBT Range Mode.			
		DIP 1		DIP 2	State Descriptio
		Off (up)		Off (up)	Standard range mode.
		Off (up)		On (down)	Ultra-long range mode.
		On (down)		Off (up)	TBD
		On (down)		On (down)	TBD
2	HOST USB B 2.0 Connector	Connect to the USB host (for example, a laptop) to communicate with the USB peripheral devices (for example, a smart board) connected to USB device port s on either the transmitter or the receiver sides of the extender (see Step 4:Co nnect inputs and outputs).			
3	ACTIVE HOST LED	Lights orange when the USB host side is active			
4	ACTIVE Rx LED	Lights green when the extender receiver function is active			
5	IN LED	Lights blue when an active HDMI input signal is detected on HDMI IN.			
6	OUT LED	Lights blue when an output acceptor device is connected.			
7	TX LOOP	Transmitter mode	Lights blue an active sig	nal is transmitted on	the Tx LOOP port.
,		Receiver m ode	N/A		
8	LINK LED	Lights green when the HDBT active link connection is established.			
9	ON LED	Lights green when the device receives power.			

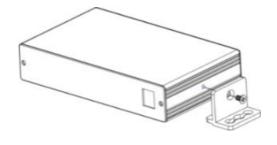


#	Feature	Function		
10	HDBT RJ-45 Connector	Connect to the HDBT RJ-45 connector on a paired receiver/transmitter device (for example, a second EXT3-XR-TR device).		
11	HDMI TX IN Connector	Transmitter mo de	Connect to an HDMI source.	
		Receiver Mode	N/A	
12	HDMI Rx OUT/Tx LOOP Conne	Transmitter mo de	Connect to a local acceptor.	
Ct	Cloi	Receiver mode	Connect to an HDMI acceptor.	
13	USB A 2.0 Connector 1			
14	USB A 2.0 Connectors 2-3	Connect to the USB local peripheral devices (for example, a USB came ra, a soundbar, microphone and so on). When USB Host PC is disconn ected, the USB charging power for this port continues to be active.		
15	IR 3.5mm Mini Jack Connector	rom the remote of Connect to an IF	external IR emitter to control a local IR-controlled device frextender (for example, EXT3-XR-TR). Resensor to control a remote IR-controlled device externate extender side (for example, EXT3-XR-TR).	
16	RS-232 3-pin Terminal Block	Connect to a controller device (for example, SL-240C) to control a remo te device via serial connection (for example, the remotely connected PT Z USB camera).		
17	ETHERNET RJ-45 Connector	Connect to LAN.		
18	SETUP 4-way DIP-switch	Sets the device behavior (see Step 4:Connect inputs and outputs).		
19	12V DC Power Connector	Connect to the power supply.		

Step 3: Mount EXT3-XR-TR

Install EXT3-XR-TR using one of the following methods:

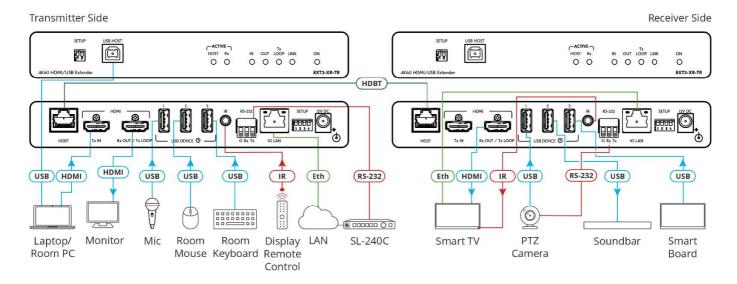
- Attach the rubber feet and place the unit on a flat surface.
- Fasten a bracket (included) on each side of the unit and attach it to a flat surface (see www.kramerav.com/downloads/EXT3 XR TR).
- Mount the unit in a rack using the recommended rack adapter (see www.kramerav.com/product/EXT3 XR TR).



- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- · Avoid uneven mechanical loading.
- Appropriate consideration of equipment nameplate ratings should be used for avoiding overloading of the circuits.
- Reliable earthing of rack-mounted equipment should be maintained.
- Maximum mounting height for the device is 2 meters.

Step 4: Connect inputs and outputs

Always switch OFF the power on each device before connecting it to your EXT3-XR-TR extender.



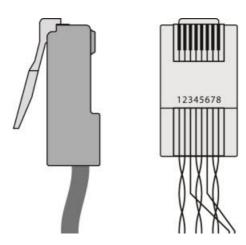
Wiring the RJ-45 Connectors

This section defines the HDBT pinout, using a straight pin-to-pin cable with RJ-45 connectors.

For HDBT cables, it is recommended that the cable ground shielding be connected/soldered to the connector shield.

To achieve specified extension distances, use the recommended Kramer cables available at www.kramerav.com/product/EXT3 XR TR. Using third-party cables may cause damage!

EIA /TIA 568B		
PIN Wire Color		
1	Orange / White	
2	Orange	
3	Green / White	
4	Blue	
5	Blue / White	
6	Green	
7	Brown / White	
8	Brown	



Setting the DIP Switches

- · All DIP-switches are set to OFF (up) by default
- All changes in DIP-Switches apply immediately, on-the-fly (no need to power cycle the device), except for DIP-switches 1 and 2.

#	Feature	DIP-switch Settings		
1	Device Operation M ode	OFF (up) – Receiver mode is active.	SETUP	
		ON (down) - Transmitter mode is active.	[8-8-8-8]	
	Active USB Host por	OFF (up) – Host is active.	11234 ON	
2	t	ON (down) – Host is inactive (active on remote paired device).	014	
		OFF (up) – Pass-through the IR signal to or from the IR cable.		
3	Define IR Pass-thro ugh	ON (down) – Add IR modulation (38kHz) to the IR output signal (applies only when the IR port is connected to an IR emitter cable).		
4	Programing RS-232	Off (up) – Normal operation mode is enabled (FW programming RS-232 is inactive). On (down) – FW programming RS-232 is active.		

Step 5: Connect power

Connect the power cord to EXT3-XR-TR and plug it into the mains electricity.

Safety Instructions (See www.kramerav.com for updated safety information) Caution:

- For products with relay terminals and GPI\O ports, please refer to the permitted rating for an external connection, located next to the terminal or in the User Manual.
- There are no operator serviceable parts inside the unit.

Warning:

- Use only the power cord that is supplied with the unit.
- Disconnect the power and unplug the unit from the wall before installing.

Step 6: Operate EXT3-XR-TR

When connecting USB devices to the USB ports, note that

- The recommended connected USB hub capacity is ≤6.
- The maximum connected USB hub capacity is ≤15.

We recommend that you use USB host PC tools, such as USB TreeView tool, to verify connected USB hubs (internal and externals) and endpoints capacity.

Documents / Resources



kramer EXT3-XR-TR DMI Extender with USB Ethernet [pdf] User Guide

EXT3-XR-TR DMI Extender with USB Ethernet, EXT3-XR-TR, DMI Extender with USB Ethernet, Extender with USB Ethernet, USB Ethernet, Ethernet

References

- Nramer | Audio Visual Solutions Kramer
- No resources found
- O Application Diagrams Kramer Electronics
- O No resources found

Manuals+,