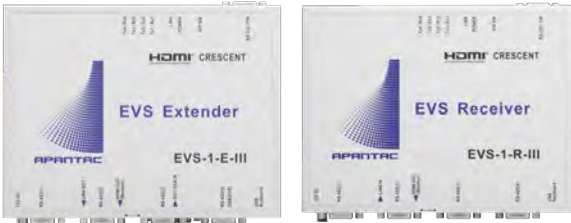


# EVS EXTENDERS (Third Generation)



## EVS-1-E-III – EVS-1-R-III USER MANUAL V1.0

### Overview

The extension of DVI or VGA, USB keyboard, and 4 x RS422 signal up to 100/150 meters away by using the EVS-SET-1-III Extender and one CAT-5e or better LAN cable.

### Package Contents

- EVS Extender Local Unit                   x 1
- EVS Extender Remote Unit               x 1
- User manual                                 x 1
- Power adapter DC 12V with lock       x 2

### Features

- Supports 4K@24/25/30Hz (4:4:4) and 4K/60 (4:2:0) and 1080p (12bit) up to 100 meters.
- VGA resolution from 800x600 to 1080P. (Need a passive DVI-to-VGA adapter or DVI-A Cable)
- Supports DVI-D (Single Link) and DVI-A
- Supports RS-232(Bi-direction transfer) baud rate up to 115200 bps.
- Supports Long Reach Mode (Video Resolution Max. 1920x1080p@60Hz / 8bit, Cable Distance Max. 150 Meters)
- Support USB 1.0/1.1 EVS keyboard.
- Support USB (only keyboard) connection to EVS XT-3.
- Local console port (Monitor + USB keyboard)
- Auto console selection between Local and Remote.
- RS422 support full-duplex data communication with baud rate up to 19200 bps.
- Support RS422 pin: Tx, Rx, RESET.
- RS422 pin: "RESET", keeps High when EVS-extender power off to prevent EVS-extender reset EVS in power off status and disconnect status.

### Specifications

Function	EVS-1-E-III	EVS-1-R-III
HDMI Connector	HDMI A-Type Female x 1	
DVI Connector	DVI-I(24+5P) Female x 1	None
RJ45 Connector	RJ-45 Jack x 1	
USB Connector	USB A Type Female x 2 USB B Type Female x 1	USB A Type Female x 2
RS422 Connector	DB9 Female x 4	
RS232 Connector	DB9 Female x 1	
DIP SW	4 Pin x 1	
LED	LED(G) x 6, LED(Y) x 4	
DC Jack	V	V
Max. Resolution	4K@30Hz / 1080p@60Hz	
Cable Distance	100/150 m (Max.)	
Patching Distances	5m + 90m + 5 m	
Power Adapter	DC 12V with lock	
Enclosure	Metal	
Weight	1148g	1125g
Dimensions (LxWxH)	181x138x44 mm	

## Local Front View



No	Component	Description
1	DB9 Connector	RS-232 Extender or FW Upgrade.
2	DIP Switch	Mode Select
3	Power LED	<b>On</b> when the unit power on. <b>Off</b> when the unit has no power.
4	Link LED	<b>On</b> when links successfully. <b>Off</b> when no link to Remote unit.
5	Tx1/Rx1 LED	Indicate RS-422(1) Tx1(G) SEND / Rx1(Y) Receive
6	Tx2/Rx2 LED	Indicate RS-422(2) Tx2(G) SEND / Rx2(Y) Receive
7	Tx3/Rx3 LED	Indicate RS-422(3) Tx3(G) SEND / Rx3(Y) Receive
8	Tx4/Rx4 LED	Indicate RS-422(4) Tx4(G) SEND / Rx4(Y) Receive

### DIP SW

Pin1 – OFF : HDBT Mode / ON : Long Reach Mode

Pin2 – OFF : DEFAULT(RS232 Extender)

ON : F/W UPGRADE Mode

Pin3 – OFF : Valens F/W Upgrade / ON : MCU TX F/W Upgrade

Pin4 – OFF : EDID Bypass(Remote or Local)

ON : EDID DVI 1080P

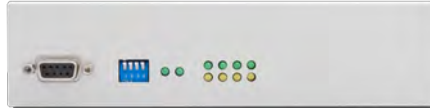
## Local Rear View



No	Component	Description
1	RS422 Connector #1 to EVS	The DB9 cable to EVS plugs here.
2	RS422 Connector #2 to EVS	The DB9 cable to EVS plugs here.
3	RS422 Connector #3 to EVS	The DB9 cable to EVS plugs here.
4	RS422 Connector #4 to EVS	The DB9 cable to EVS plugs here.
5	Power Jack	The power adaptor plugs in here.
6	CAT.5 Connector	Plugs the CAT5 cable into this

		connector.
7	Monitor Connector	The HDMI cable connects to the monitor plugs in here.
8	DVI-I Connector to EVS	DVI : The DVI-D(Single Link) cable to EVS plugs here. VGA : The DVI-A cable to EVS plugs here.
9	USB B Type Connector	The USB cable to EVS plugs here.
10	USB A Type Connector	The USB Keyboard plugs here.

## Remote Front View



No	Component	Description
1	DB9 Connector	RS-232 Extender or FW Upgrade.
2	DIP Switch	Mode Select
3	Power LED	<b>On</b> when the unit power on. <b>Off</b> when the unit has no power.
4	Link LED	<b>On</b> when links successfully. <b>Off</b> when no link to Local unit.
5	Tx1/Rx1 LED	Indicate RS-422(1) Tx1(G) SEND / Rx1(Y) Receive
6	Tx2/Rx2 LED	Indicate RS-422(2) Tx2(G) SEND / Rx2(Y) Receive
7	Tx3/Rx3 LED	Indicate RS-422(3) Tx3(G) SEND / Rx3(Y) Receive
8	Tx4/Rx4 LED	Indicate RS-422(4) Tx4(G) SEND / Rx4(Y) Receive

### DIP SW

Pin1 – OFF : HDBT Mode / ON : Long Reach Mode

Pin2 – OFF : DEFAULT(RS232 Extender)

ON : Valens RX F/W UPGRADE Mode

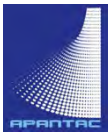
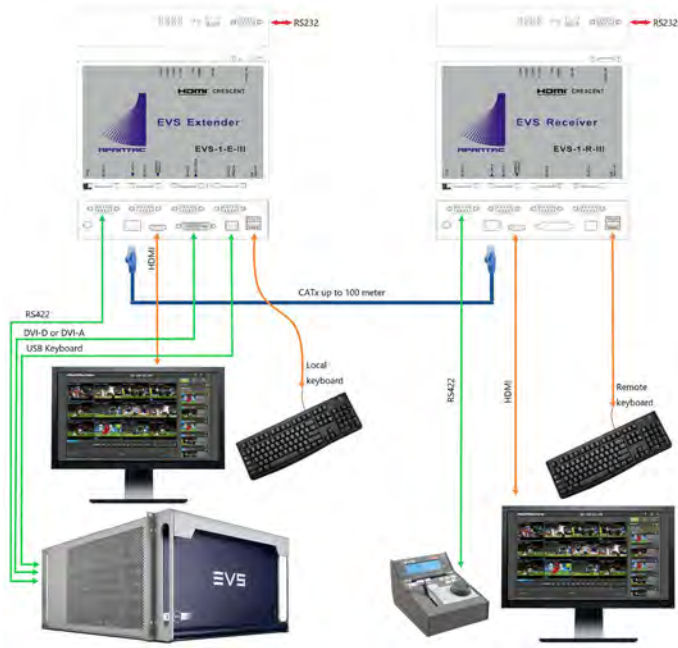
Pin3,4 – Reserved

## Remote Rear View



No	Component	Description
1	RS422 Connector #1 to EVS	The DB9 cable to "EVS Controller" plugs here.
2	RS422 Connector #2 to EVS	The DB9 cable to "EVS Controller" plugs here.
3	RS422 Connector #3 to EVS	The DB9 cable to "EVS Controller" plugs here.
4	RS422 Connector #4 to EVS	The DB9 cable to "EVS Controller" plugs here.
5	Power Jack	The power adaptor plugs in here.
6	CAT.5 Connector	Plugs the CAT5 cable into this connector.
7	Monitor Connector	The HDMI cable connects to the monitor plugs in here.
8	USB A Type Connector	The USB Keyboard plugs here.

# Installation



© 2021 APANTAC LLC, All rights reserved  
10200 SW Allen Blvd, Suite C  
Beaverton, OR 97005, USA  
PHONE +1 503 968 3000, FAX +1 503 389 7921

The content of this document is provided in connection with Apantac LLC ("Apantac") products. Apantac makes no representation or warranties with respect to the accuracy or completeness of the contents of this publication and reserves the right to make changes to specification and product descriptions at any time without notice