Manuals+ — User Manuals Simplified.

APANTAC EVS-1-E-III EVS Extenders User Manual
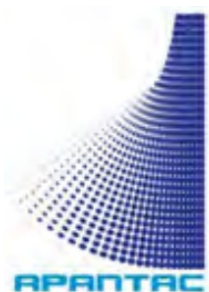
Contents

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 800×600 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
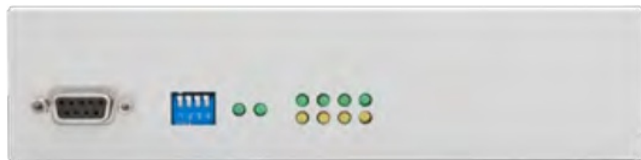
No	Component	Description
1	DB9 Connector	RS-232 Extender or FW Upgrade.
2	DIP Switch	Mode Select
3	Power LED	**On** when the unit power on. **Off** when the unit has no power.
4	Link LED	**On** when links successfully. **Off** when no link to Remote unit.
5	Tx1/Rx1 LED	Indicate RS-422(1) Tx1(G) SEND / 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
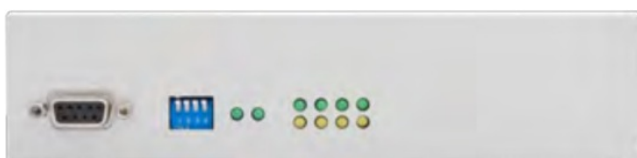
No	Component	Description
1	DB9 Connector	RS-232 Extender or FW Upgrade.
2	DIP Switch	Mode Select
3	Power LED	**On** when the unit power on. **Off** when the unit has no power.
4	Link LED	**On** when links successfully. **Off** when no link to Local unit.
5	Tx1/Rx1 LED	Indicate RS-422(1) Tx1(G) SEND / 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

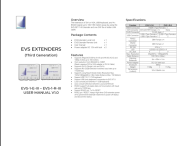| No	Component	Description
1	RS422 Connector #1 to EVS	The DB9 cable to "EVS Controller" plugs here.
2	RS422 Connector #2 to EVS	The DB9 cable to "EVS Controller" plugs here.
3	RS422 Connector #3 to EVS	The DB9 cable to "EVS Controller" plugs here.
4	RS422 Connector #4 to EVS	The DB9 cable to "EVS Controller" 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
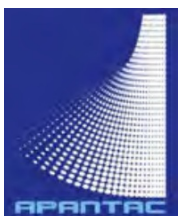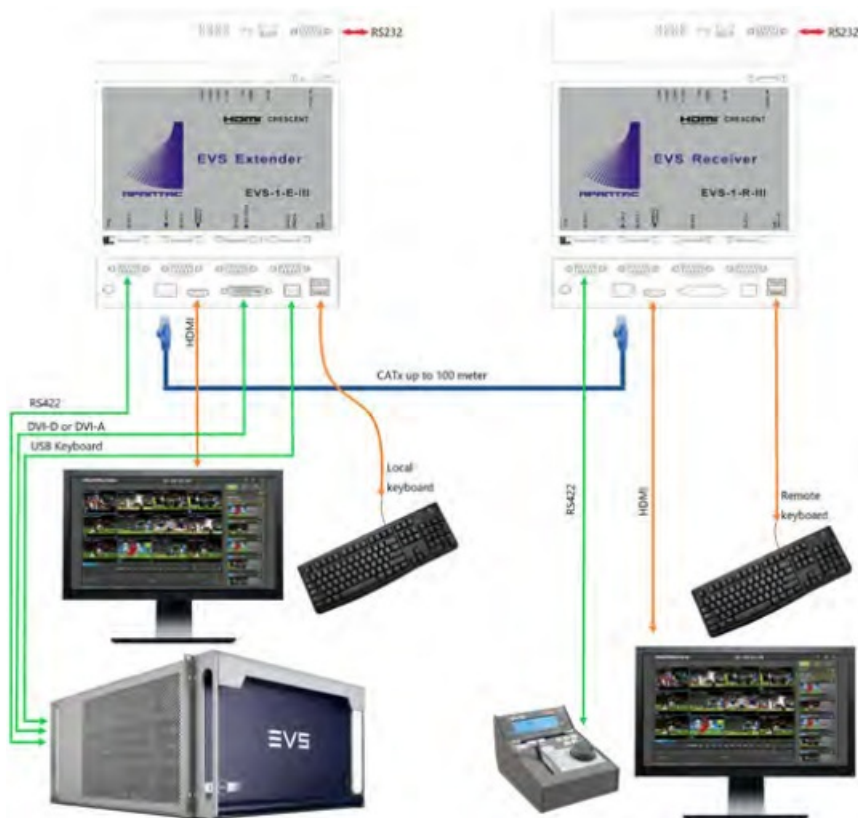
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Documents / Resources

	APANTAC EVS-1-E-III EVS Extenders [pdf] User Manual EVS-1-E-III, EVS-1-R-III, EVS-1-E-III EVS Extenders, EVS Extenders, Extenders