4K - UHD

Video Extender Over IP

ANGUSTOS

4K-UHD Video Extender over IP - Support Video Wall

Hardware Based Design

High performance video processing equipment with ★
hardware architecture design.

No more computer high-end specification. ★
No more high-end GPU Card. ★
No more licenses. ★
No more blue-screen OS crash. ★
No more viruses and black screen. ★
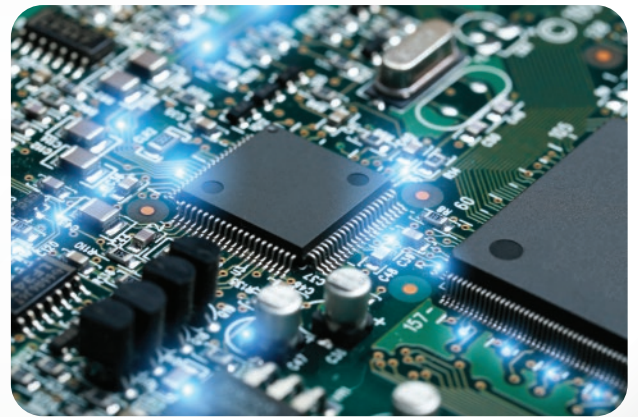No more ransomwares, lost data. ★

Extender with UTP Cable. ★
Flexible system integration. ★
Compatible with Centralized Controller. ★

FPGA Dedicated Chipset

Dedicated Field Programmable Gate Array (FPGA) chipset is a combination of processing unit that dedicated in video processing. This eliminated the limitation of a CPU or a GPU from conventional Software or PC controller.

Un-limit scalability and flexible system

Simplyfied IP setup process

No additional server PCs or software required

Extend further with daisy chaining

Features

* HDMI 2.0 and HDCP 2.2 compliant

* Multi-resolution up to 3840x2160@60Hz

* Support HDMI loop out on Transmitter

* Extend video signal from single cast to multi-cast

* Extender, splitter, matrix switch, video wall in one solution

* Support video wall / matrix with Seamless Switch

* Support RS-232 and TCP/IP control

* Support USB for extended KVM applications.

4K OVER IP -1GbE HDMI EXTENDER - USB KVM
Support Video Wall Processing

Features

* HDMI 2.O and HDCP 2.2 compliant

* Multi-resolution up to 384Ox216O@6OHz

* Support HDMI loop out on Transmitter

* Extend video from single cast to multi-cast

* Extender, splitter, matrix and video wall in one solution

* Support seamless switching

* Support RS-232 and TCP/IP control

* Support USB for extended KVM applications.

APi-E8TI

APi-E8RI

SPECIFICATION

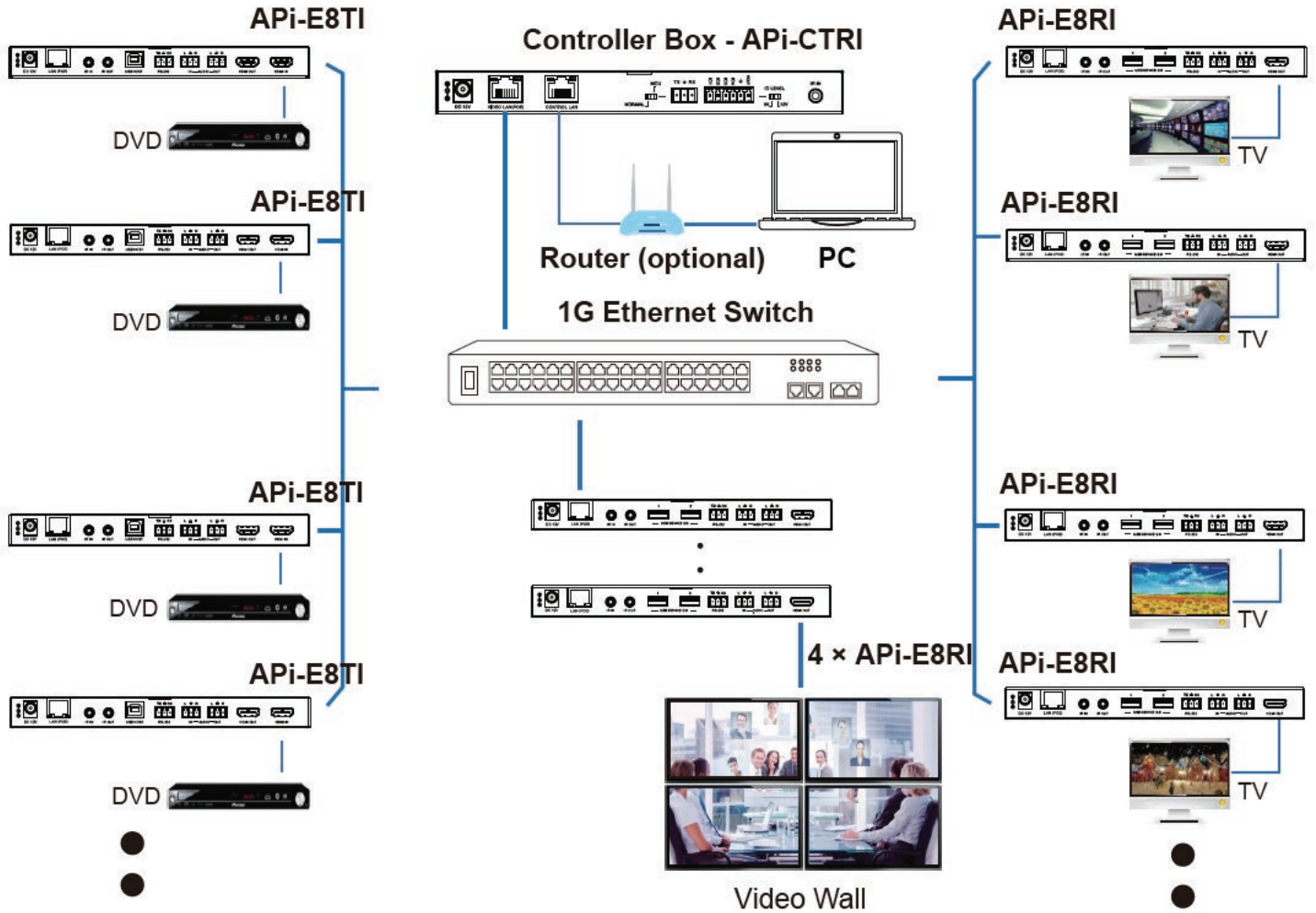|	
Chassis size	204mm (W)×100mm (D)×21.5mm (H)
Max. Data Rate	18Gbps
Compression	JPEG2000
Video Bandwidth	Gigabit
HDMI Protocol	HDMI 2.0b with backward compatible
Audio	3.81mm Phoenix + 3.5mm Audio Jack
Control I/O	IP / RS-232 / USB / IR
Color Depth	8/10/12 bit
Color range	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
HDMI Audio Formats	LPCM 2.0/5.1/7.1CH, Dolby Digital
	Dolby Atmos, DTS, DTS-96/24, DTS-EX
	DSD, DTS High Res, DTS-HD Master
Transmission Distance	100M CAT5E/6/6A/7
Control I/O	IP / RS-232 / USB / IR
IR Level	12Vp-p
IR Frequency	Wideband 20K - 60KHz
Weight	TX:509g, RX:496g
HDMI Cable lenght	*High Speed Gold Plus HDMI: 4K@60Hz : 5 meters 4K@30Hz : 10 meters 1080p@60Hz : 15 meters

HDCP	Support 1.3 / 1.4 / 2.2
EDID	Auto - Program
ESD Protection	±8kV (Air-gap discharge) ±4kV (Contact discharge)
Resolution Input (max)	480i~1080p@50/60Hz, 4K@60Hz
Resolution Output (max)	480i~1080p@50/60Hz, 4K@30Hz
Scaler	Support both up/down scaling
Power	10W, 110 ~ 260V, 50-60 Hz
	DC 12V/1A (CE/FCC/UL certified)
Temp / Humid Operation	0°C ~ + 50°C / 0% ~ 90%
Temp / Humid Storage	-20°C ~ + 70°C / 0% ~ 90%

I/O Ports

	APi-E8Ti	APi-E8Ri
Input	1 x HDMI IN	1 x IR IN
	1 x L/R AUDIO IN	1 x MIC IN
	1 x IR IN	
Output	1 × HDMI OUT	1 × HDMI OUT
	1 x L/R AUDIO IN	1 x L/R AUDIO IN
	1 x IR OUT	1 x IR OUT
Control	1 x RS-232	1 x RS-232
	1 x LAN	1 x LAN
	1 x USB	2 x USB type A 1.1
		2 x USB type A 2.0

ANGUSTOS

4K OVER IP -1GbE HDMI EXTENDER - USB KVM
Support Video Wall Processing

CONNECTION DIAGRAM

APi-E8TI
DVD

APi-E8TI
DVD

APi-E8TI
DVD

APi-E8TI
DVD

Controller Box - APi-CTRI
Router (optional)   PC
1G Ethernet Switch

4 × APi-E8RI
Video Wall

APi-E8RI
TV

APi-E8RI
TV

APi-E8RI
TV

APi-E8RI
TV

REQUIREMENT FOR NETWORK SWITCH

A network Switch used to set up the system should support below features:

1. Layer 3/managed network Switch.
2. Gigabit bandwidth.
3. 8KB jumbo frame capability.
4. IGMP snooping.

The following Switch models are highly recommended :
CISCO : CATALYST series - SG500
HUAWEI : S5720S-28X-PWR-LI-AC

ANGUSTOS