4K - UHD

Video Extender Over IP

4K-UHD AV Over IP Central Controller

ANGUSTOS

The Future of Video distribution and management

Digital signage has been sophisticated as well as complicated more than ever. Quality and quantity come together in many aspects. There is progress up to 8K display for specialized display, with 4K has been popular at consumer levels.

With the rise of network-based AV distribution systems, there is also a need for centralized management devices. Without the requirement to remember all of the transmitters' and receiver's distinctive IP addresses, Angustos AV over IP Controller will handle and manage the AV distribution smoothly without any difficulty and hassle in installation and configuration.

Introducing the APi-CTLI, this Video over IP Controller is used to control and manage the Extender over IP device. Supports dual 1G network ports, which can realize dual-network isolation of distribution network and Multicast video to many locations at once.

It supports Web GUI/TCP/RS-232/IR/GPIO controls, POE function, and IR control signal pass through as well.

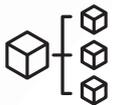Deliver synchronized, loss-less A/V content to all displays at the same time
· Provide compatibility with different display resolution (EDID)
· Support UHD video distribution in complexed system
· Transmit extreme video quality and content without signal loss
· Switch different inputs smoothly without blanking (seamless)
· Provide a simple solution to control A/V content to save time and effort
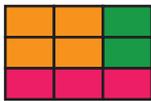
Centralized Management

Easy deployment

Multi-cast

4K ULTRA HD
4K UHD with Seamless

Saving

Video Wall

Daisy-Chain

Matrix Switch

Features

§ Create project, control and manage the system

§ HTTPS, SSH, SFTP security protocol compatible

§ Built-in Web GUI interface, supporting Drag & Drop operations

§ Support image preview

§ Support Video, Audio, RS-232, IR, KVM management

§ Dual network ports (VIDEO LAN port supports POE function)

§ Flexible Multicast networks.

§ Support third-party central control

§ Support IR signal receiving (3.5mm audio jack, 12V level)

§ 4 channel GPIO control ports (5V/12V optional level)

§ Multiple circuits protection, lightning protection and ESD design

§ Reliable system design, 24 x 7 stability.

Compatible with

APi-E8TI / APi-E8RI

Video over IP Controller
Support Matrix - Multicast - Video Wall Processing

Features

* AV Over IP Central Managment

* Multi-resolution up to 3840x2160@60Hz

* HTTPS, SSH, SFTP compatible

* Support image preview

* Flexible Multicast networks.

* Built-in Web GUI interface

* Supporting Drag & Drop operations

* Support AV, RS-232, IR, KVM management

SPECIFICATION

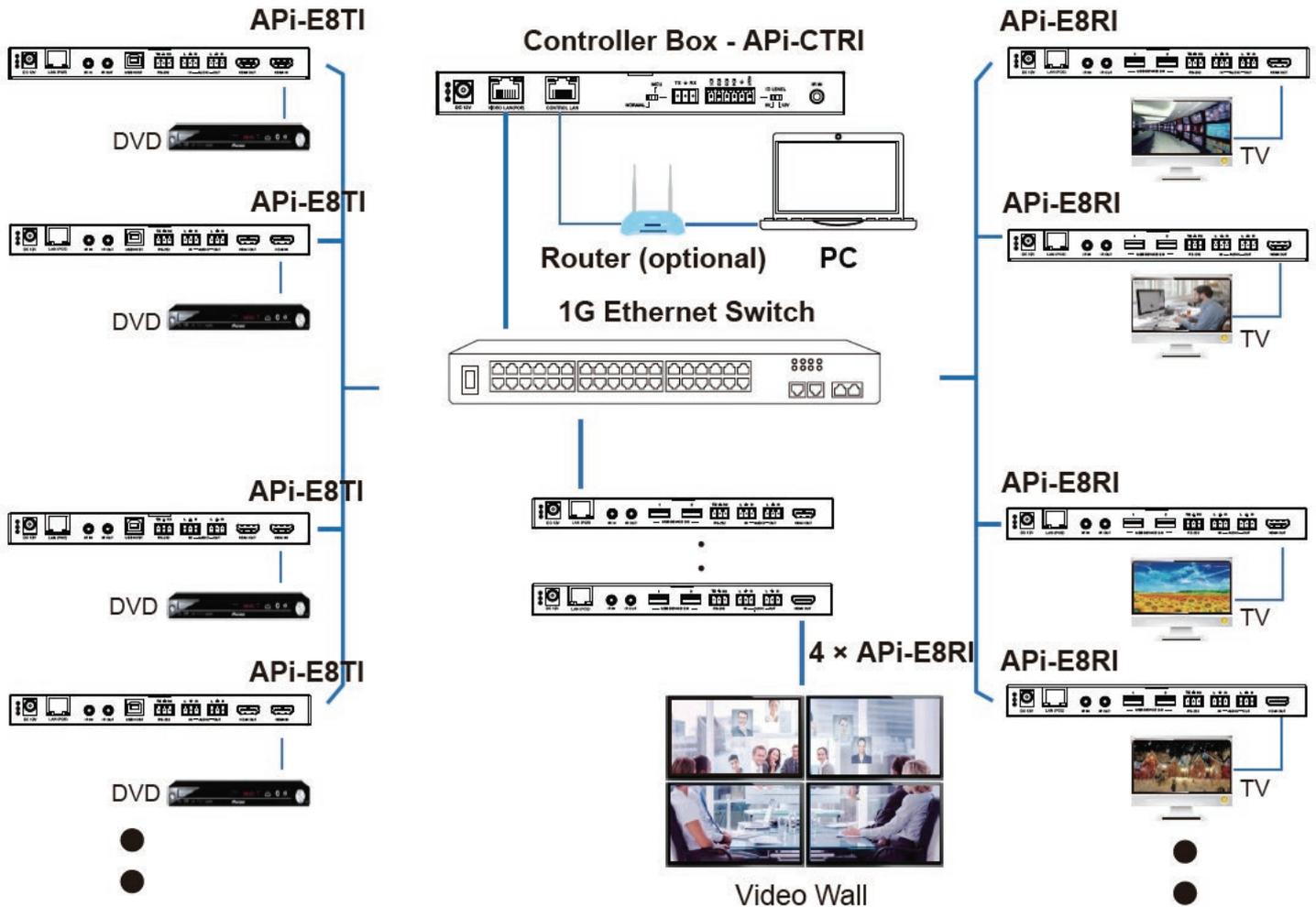|			
Chassis size	204mm (W)×98.5mm (D)×21.5mm (H)	EDID	Auto - Program
Transmission Distance	100m CAT 5e / 6 / 6A / 7	ESD Protection	±8kV (Air-gap discharge) ±4kV (Contact discharge)
Control Ports	2 x Gigabit LAN - RJ45	Resolution Input (max)	480i~1080p@50/60Hz, 4K@60Hz
	[Video LAN port support POE]	Resolution Output (max)	480i~1080p@50/60Hz, 4K@30Hz
	1 x IR IN - 3.5mm jack - 12V	Scaler	Support on connected devices
	1 x IR OUT - 3.5mm jack	Power	10W, 110 ~ 260V, 50-60 Hz
	1 x DIGITAL I/O [3.81mm phoenix]		DC 12V/1A (CE/FCC/UL certified)
	2 x RS-232 [3.81mm phoenix]	Temp / Humid Operation	0°C ~ + 50°C / 0% ~ 90%
	1 x USB HOST [USB - Micro]	Temp / Humid Storage	-20°C ~ + 70°C / 0% ~ 90%

SPECIFICATION APi-E8TI / APi-E8RI *Summary

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
HDMI Cable lenght	*High Speed Gold Plus HDMI:
	4K@60Hz : 5 meters
	4K@30Hz : 10 meters
	1080p@60Hz : 15 meters

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

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

CONNECTION DIAGRAM

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