

## Audio-Video Over IP Distribution System - AVIDS



## Hardware Based Design

- ★ High performance video - audio distribution with hardware architecture design.
- ★ No need for centralized control device
- ★ KVM Management for Control and Meeting Room
- ★ Customized UI for easy management
- ★ Matrix-Videowall-KVM features combined
- ★ Flexible Distribution Features
- ★ Integrated Central Control Ports. Remote ON/OFF
- ★ Special Features for Command Center
- ★ Various type of displays support
- ★ Real time Pre-view with H.264 compression

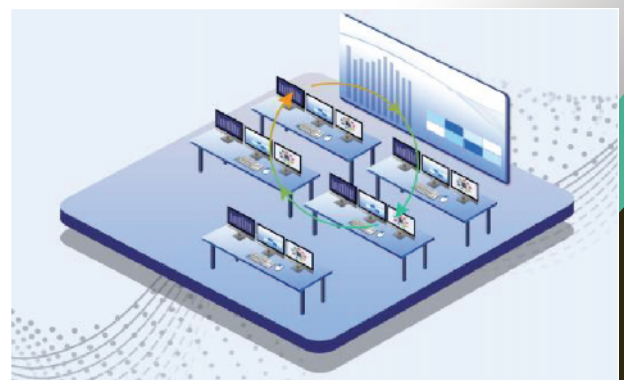
## FPGA Dedicated Chipset

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  
Simplified IP setup process  
No additional server PCs or software required  
Extend further with daisy chaining

## Features

- \* **VISUAL SENSE™** :  
Combined Audio/Video - KVM - Video Wall distribution of the whole system without using switcher devices.
- \* **OPTIMAL SENSE™** :  
Real time preview and synchronous signal. Integrated Centralized Control for other devices in Command Center Room like AC, Projector, Speakers, Lighting and other peripherals devices through RS-232, RS-485, IR, I/O...
- \* **CONTROL SENSE™** :  
Realtime management and control of multiple PC in the whole system. Command Center feature support Push - Pull, Flexi Console, Cross Screen Switch, KVM Lock
- \* **CUSTOM SENSE™** :  
The user interface can be customized on both Windows and Mobile devices to suit different type of project and scenarios. Supports all type of displays : LCD, DLP, Projector, LED etc



## Full HD - AV over IP Distribution System Support Video Wall and KVM

### Features

- \* HDMI in/out, Audio and USB ports
- \* RS-232, RS-485, IR
- \* Videowall with un-limit Layers\*
- \* Gigabit Ethernet - Adaptive TCP/IP control
- \* Extender, splitter, matrix, KVM switch and video wall in one solution
- \* Support seamless switching
- \* Scrolling Text - Preview - Echo signal
- \* Support USB for extended KVM applications.
- \* Hybrid Node™ : One unit can be Tx or Rx
- \* Remote Power ON/OFF
- \* VISUAL SENSE™
- \* OPTIMAL SENSE™
- \* CONTROL SENSE™ - with Push-Pull
- \* CUSTOM SENSE™



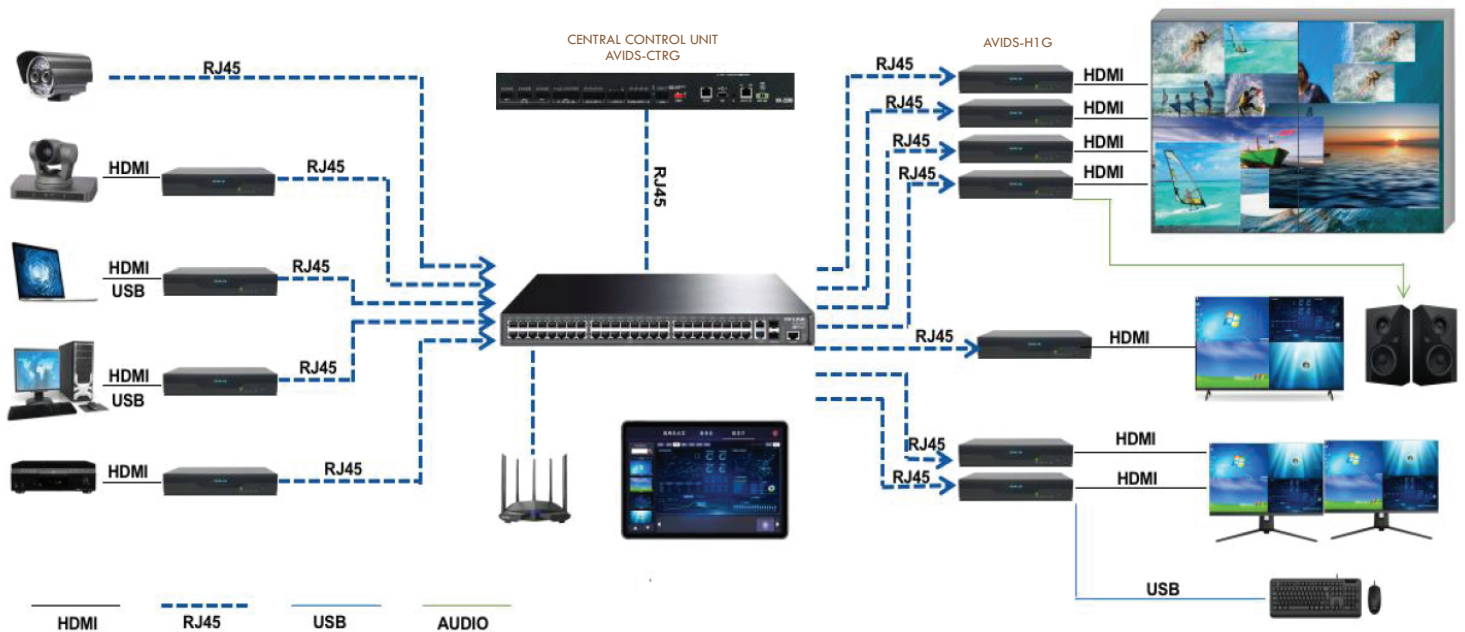
### SPECIFICATION

Video	1 x HDMI input and 1 x HDMI Loop Out
Resolution	1920x1080@60Hz (backward compatible)
Audio in/out	3.5mm - Phoenix terminal
Network	1 x RJ-45
Encoding	H.264
Bandwidth	100/1000M Adaptive Ethernet
POE	Support
Control	1xRS-232 , 1xRS-485, 1xIR
USB	2 x USB 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

HDCP	Support 1.3 / 1.4
EDID	Auto - Program
ESD Protection	±8kV (Air-gap discharge) ±4kV (Contact discharge)
Resolution Input (max)	480i~1080p@50/60Hz
Resolution Output (max)	480i~1080p@50/60Hz
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%
IR Level	12Vp-p
IR Frequency	Wideband 20K - 60KHz
Weight	509g
HDMI Cable length	1080p@60Hz : 5 meters

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### 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. 9KB jumbo frame capability.
4. IGMP snooping.

The following Switch models are highly recommended :

CISCO : CATALYST series - SG500  
HUAWEI : S5720S-28X-PWR-LI-AC