



1080P HDMI OVER IP DECODER

AVP-DE2K-101 Datasheet

INTRODUCTION

aegis 1080P over IP includes H.264 IP encoder (AVP-EN2K-101) and decoder (AVP-DE2K-101) can work together to provide complete end-to-end streaming systems. Video, audio, IR, USB and RS232 signals can be routed together or separately throughout the matrix system. They can also function video wall up to the dimensions of 16 x 16 with input and output HDMI resolutions supported up to 1920 x 1080@60Hz.

They can also be powered through PoE. They provide simple, flexible control options, including RS232, IP control box (AVP-CBS2K-101), Windows software HDMI Over IP Console (for system configuration), iPad software AGS-i Touch and Windows software Maintain Tool (for firmware upgrade). The decoder also supports CEC/RS232 control to realize power on and off control on displays. They offer solutions for conference rooms, shopping malls, hotels, monitoring centers, schools and corporate training environments, etc.

FEATURES

- ✓ Stream HDMI/RS232/IR/USB/ HID signal over IP networks.
- ✓ Decoder offers auto scaler with output resolutions supported from 480p@60Hz to 1920 x 1080@60Hz scaling based on the EDID of display.
- ✓ Support video wall up to the dimensions of 16 x 16.
- ✓ Available API interface for third party control system integration, offering control through IP control box (AVP-CBS2K-101), PC configurator (HDMI over IP Console) and AGS-i Touch on iPad.
- ✓ Decoder can receive CEC commands from the display and report them to IP control box.
- ✓ Support HDCP.
- ✓ Support seamless switch
- ✓ Support PoE
- ✓ Support audio de-embedding output.
- ✓ Support RS232 pass-through between encoder and decoder, or between IP control box and encoder/decoder.
- ✓ Support IR pass-through between encoder and decoder, as well as IR pass-through from IP control box to encoder/decoder in global cache IR format.
- ✓ Support KVM (keyboard/mouse only)
- ✓ Allow video, audio, IR, USB and RS232 signals to be routed together or separately.
- ✓ Can work at multicast mode or unicast*mode (configuration on network switch is not required in unicast mode).
- ✓ Support EDID export from display to decoder.
- ✓ Support CEC one-touch-play and standby commands to power on and off the display.
- ✓ Decoder can turn off the output through API when no source is detected.



AVP-DE2K-101- Specification

Input Video Port	1 x LAN
Input Video Type	H.264
Input Resolution	From 480p@60Hz to 1920x1080@60Hz
Output Video Port	1 x HDMI
Output Video Type	HDMI 1.3, HDCP 1.4
Output Resolution	480p@60Hz, 576P@50Hz, 800 x 600@60Hz, 1024x 768@60Hz, 720p@50Hz, 720p@60Hz, 1280 x 800@60Hz, 1280 x 1024@60Hz, 1366 x 768@60Hz, 1440 x 900@60Hz, 1680 x 1050@60Hz, 1920 x 540@60Hz, 1080p@24Hz, 1080p@25Hz, 1080p@30Hz, 1080p@50Hz,1080p@60Hz, 1920 x 1200@60Hz
Video Impedence	100 Ω
End-to-End Time Latency	When works with th e AVP EN2K 101 decoder: About 80 ms (Low latency mode, from TX to RX) About 250 ms (High quality mode, from TX to RX)
Input Audio Port	1 x LAN
Input Audio Format	LPCM/MPEG4 AACstereo
Output Audio Port	1 x Phoenix connector; 1 x HDMI
Output Audio Format	Stereo
Control Method	Front panel button, IP Control Box (AVP-CBS2K-101), PC configurator (HDMI over IP Console), iPad software AGS-i Touch
Operating Temperature	+32°F ~ +113°F (0°C ~+45°C) 10% ~ 90%, non-condensing
Storage Temperature	-4°F ~ 140°F (-20°C ~ +70°C) 10% ~ 90%, non-condensing
ESD Protection	Human body model: ±8kV (air-gap discharge) ±4kV (contact discharge)
Surge Protection	Voltage: ±1 kV
Power Supply	12 V 1 A DC
Power Consumption	6W (Max.)
Product Dimensions(W x H x D)	175 mm x 25 mm x 100.2 mm / 6.9" x 0.98" x 3.94"
Net Weight	0.50kg/1.1lbs

