

# AV-9612

## SMPTE SDI based HDMI with Power over UTP cable Extender

The AV-9612 is a long reach HDMI extender supporting Advanced Video Transport (AVT) technology with visually lossless digital video compression. It also supports uncompressed video transmission and is compatible with SMPTE SD-SDI/ HD-SDI and 3G-SDI, supports most VESA and HDTV video formats up to HD 1080p50/60.



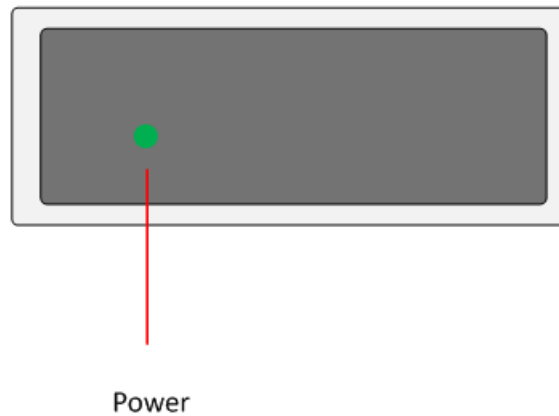
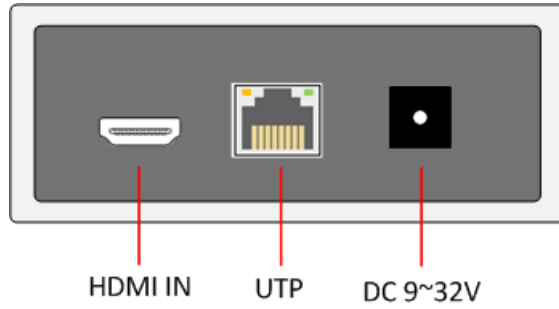
The AV-9612 includes AV-9612T (Transmitter) and AV-9612R (Receiver). The Transmitter/Receiver comes with one HDMI input/output ports for the HDMI video sources and screens. The Receiver employs serial data adaptation engine which automatically adjusts data. AV-9612 provides Power over Cable; it can be powered either by the Transmitter or Receiver site and the other site does not need external DC power adapter. The Receiver employs serial data adaptation engine which automatically adjusts data equalization based on cable quality and cable length up to CAT6 120 meters in 1080p, or 150 meters in 720p.

### Features

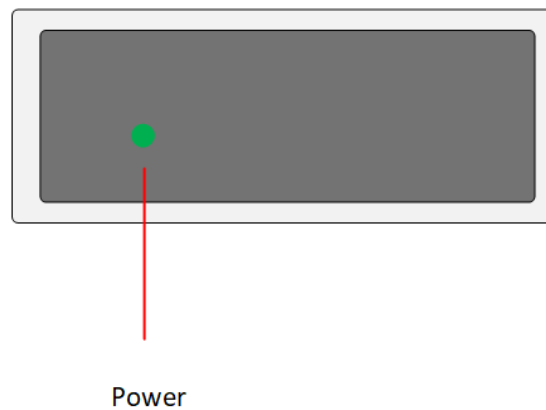
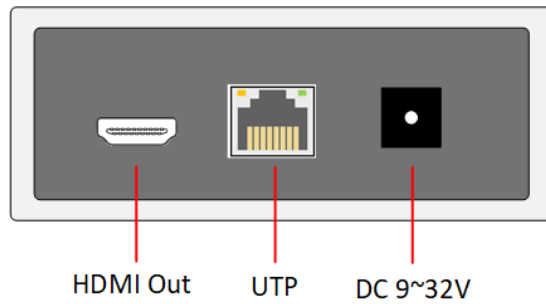
- ❖ Compatible with SMPTE SD-SDI/ HD-SDI/3G-SDI.
- ❖ Supports most VESA and HDTV video formats up to HD 1080p50/60.
- ❖ Supports configurable serial data rate from 135Mbps to 2.975Gbps.
- ❖ Supports forward error correction for compressed video.
- ❖ Supports Power over Cable (PoC).
- ❖ Supports 9 ~ 32V industrial input power range.
- ❖ Supports Plug-and-Play, EDID, Hot-Plug Detection (HPD), HDCP.

## Front and Rear View:

### AV-9612T Transmitter



### AV-9612R Receiver



## Specification

Model No.		AV-9612T Transmitter	AV-9612R Receiver
Connectors	HDMI Input	1	N/A
	HDMI Output	N/A	1
	RJ-45 Input	N/A	1
	RJ-45 Output	1	N/A
	Power	DC 9 ~ 32V/1A, Power over Cable on either TX or RX	
Serial data rate		AVT compressed video: 135Mbps - 742.5Mbps Uncompressed video: 270Mbps, 742.5Mbps, 1.485Gbps, 2.970Gbps	
Video formats		AVT compressed video: 720x576p50, 720x480p60, 640x480p60/75, 800x600p60/75, 1024x768p60/75, 1280x800p60, 1280x1024p60, 1440x900p60, 1680x1050p60, 1280x720p25/30/50/60, 1920x1080p25/30/50/60.  Uncompressed video: SD 525i/ 625i, HD 720p 24/25/30/50/60, HD 1080i 50/60, HD 1080p 24/25/30/50/60.	
Cable Type		CAT 5e / 6 / 7	
Support bi-direction audio		Yes	
Audio Support Format		Downstream direction: I2S master/slave, SPDIF slave, 4 channels, 8/16/24/32/44.1/48/96K sample per second, 16/20/24 bits per sample.  Upstream direction: I2S master/slave, 1 channel, 8K sample per second, 16 bits per sample.	
Cable Distance		1080p: 120 meters 720p: 150 meters	
Environment	Operating Temp.	-20 ~ 80°C	
	Storage Temp.	-40 ~ 125°C	
	Humidity	0~90% Non-condensing	
Physical Properties	Material	Metal chassis with mounting holes	
	Weight	110g	
	Dimension	85mm x 75mm x 30mm (L x W x H)	

# Topology Diagram

