

## DuetE-WP-H • Duet Wallplate Encoder w/HDMI Only

Powerful AV Encoding in a convenient, Wallplate form-factor

### Overview

The PacketAV® Duet Wallplate Encoder has been nothing short of a paradigm shift for networked AV.

True convergence; a single platform to support Dante® /AES67 and Video over IP in a convenient wallplate form-factor.

Building on their success and wide adoption, the next generation of PacketAV® Duet Wallplate Encoders continue to provide powerful 4K UHD Video and Dante® /AES67 Audio over a single Gigabit Ethernet port, now in a simplified HDMI only version for streamlined installations.

It can be easily mounted in a wall, tabletop, lectern, or floor box using a standard 2-gang US or UK back box, and connected to power (standard POE) and Ethernet using only a single category cable.



Visionary's PacketTV® and PacketAV® products can be deployed on any industry standard IP network. They can be used on existing enterprise IP networks or a physically separate parallel network [private network] to offload traffic, using the same network protocols, methods, and devices but without intermingling of video traffic with data or voice; with equal ease of installation.

### Features

#### One Gigabit LAN Port for 4K UHD Video, Dante®/AES67, and Control

- A single Ethernet port for Video over IP and Dante®/AES67 audio embedding and de-embedding, with VLAN tagging capability to separate Audio & Video network traffic as needed

#### Balanced Audio Line Output on Rear Panel

- A rear-panel euro terminal block provides a stereo balanced audio output from Dante® or de-embedded from HDMI.  
This output can feed a variety of local devices to provide a specific line level output to users, or it may be used to directly feed an audio power amplifier in the associated audio zone.

#### Dynamically Optimized (Adaptive) bit-rate compression CODEC w/ built-in AI

- Visionary's highly efficient video compression codec is a modified full frame encoding that dynamically optimizes for fine lines (computer generated graphics) or motion video by using sophisticated AI to analyze the input source content. Actively matching the level of compression to a scene by leveraging periods of low motion video content reduces the stream's size and enhances performance - enabling, without compromising image quality, Visually Lossless transmission of computer generated graphics or full-motion video sources.
- Adjustable Video Bitrate: (50 – 200 Mbps or Auto [800Mbps max])



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### Benefits

A single Gigabit LAN Port for PoE Power, 4K UHD Video, Dante /AES67, and Control

HDMI only eliminates unused I/O connectors, simplifying installation & reducing end user support calls

Secure Network Isolation - VLAN Tagging separates AV traffic on the corporate network

Easy installation in a wall, door, or lectern

Mounts into standard Decora style wallplates

Easy Control Integration

Ultra-low Latency [ ~1 frame - visually lossless ]

Low bitrates

No server or 10 Gigabit switch required

Low-Cost network switches are used

Scalable / Unlimited Distribution

Any number and combination of inputs/outputs [in increments of one]

Standard network cabling [CAT5e/6]

Utilize existing network resources

Rapid deployment

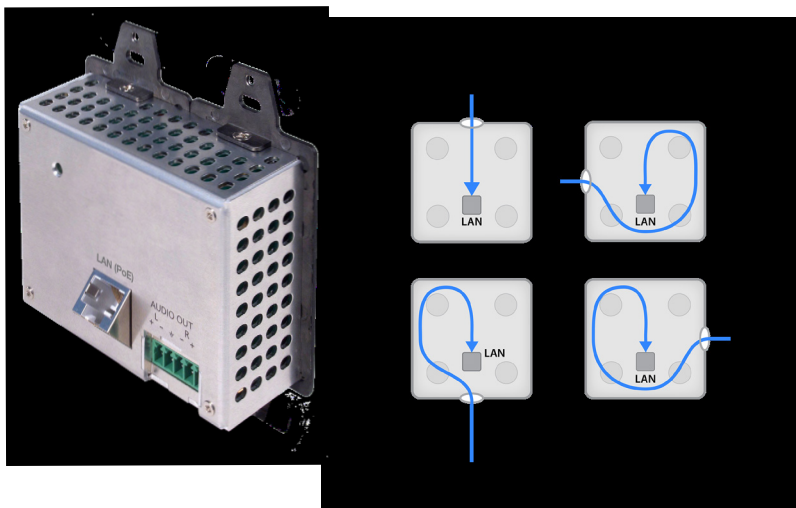
Single network for AV and IT

Reduced operating costs

### Fits conveniently into a 2-gang US or UK back box with no modification

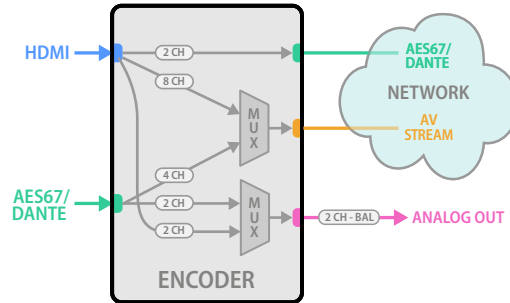
Low Heat / Power: Natural convection via vent openings on front, sides, and top

45 Degree Ethernet connector allows easy access from any side of electrical boxes while providing bend radius relief for category cable.



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### Audio Workflow



### Specifications

Encoding/Decoding	
Video Codec	JPEG2000 based visually lossless video compression algorithm
Audio Codec	Dante™/AES67
Bit Rates	50 to 800 Mbps
Latency	Ultra-low Latency (visually lossless video) 17ms @ 1080p60 & 4K60 4:2:0 33ms @ 4K30 4:4:4
Streaming Protocols	IP, UDP, TCP, ICMP, IGMP
Copy Protection	HDCP 2.2, AES-128 Encryption
Video	
Maximum Resolutions	High Dynamic Range (HDR) 4K60 4:2:0 HDR 8 bit 4K30 4:4:4 HDR 8 bit 1080p60 4:4:4 HDR 12 bit 1080p30 4:4:4 HDR 12 bit
Input Signal Types (Encoder)	1x HDMI capable of receiving source input video formats up to 4K60 4:2:0
Audio	
Input Signal Types	HDMI Audio, Dante™/AES67 Network Audio (up to 4 channels) • 1 digital input de-embedded from HDMI • 1 Dante™/AES67 digital audio input (up to 4 channels)
Output Signal Types	HDMI Digital Audio (NLPCM pass-through), Analog Stereo Audio, Dante™/AES67 Network Audio • 1 digital audio output via HDMI • 1 Analog Stereo Audio output (balanced) • 1 Dante™/AES67 digital audio output (up to 2 channels)
Digital Formats	Dolby Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS®, DTS-ES, DTS 96/24, DTS-HD High Res, DTS-HD Master Audio, DTS:X, LPCM up to 8 channels.
Analog Formats	Stereo 2-channel
Analog-To-Digital Conversion	24-bit 48 kHz
Digital-To-Analog Conversion	24-bit 48 kHz
Dante™/AES67	24-bit 48 kHz
Analog Output Volume Adjustment	-80 to +20 dB

Communication & Control of External Devices	
HDMI	HDCP 2.2, EDID
Connectors	
LAN	8-pin RJ-45 connector, female; 100BASE-TX / 1000BASE-T Ethernet port / PD port POE (IEEE 802.3af)
HDMI INPUT	(1) HDMI Type A connector, female; HDMI digital video/audio input
5 pin Euroblock 3.81mm pitch connector	Analog Stereo Output (balanced)
Power	
Power Consumption	12 W typical
Environmental	
Cooling	Convection / no fan (no moving parts)
Temperature	32° to 104° F (0° to 40° C)
Humidity	10% to 90% RH (non-condensing)
Heat Dissipation	25 BTU/hr
Acoustic Noise	0 dBA
Form Factor	
Dimensions	Height: 4.07 in. (103.4 mm) Width: 3.61 in. (91.8 mm) Depth: 2 in. (50.6 mm)
Weight	1.0 lb (0.45 kg)
Compliance	
	CE, FCC, C-tick, RoHS, WEEE

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### Dimensions • (in mm)

