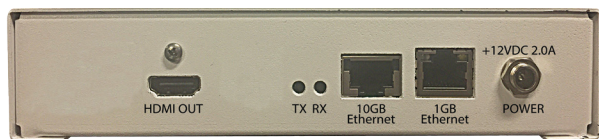




AV over IP...  
SIMPLIFIED

# ZyPer4K™

## Zero Latency UHD Video Distributions



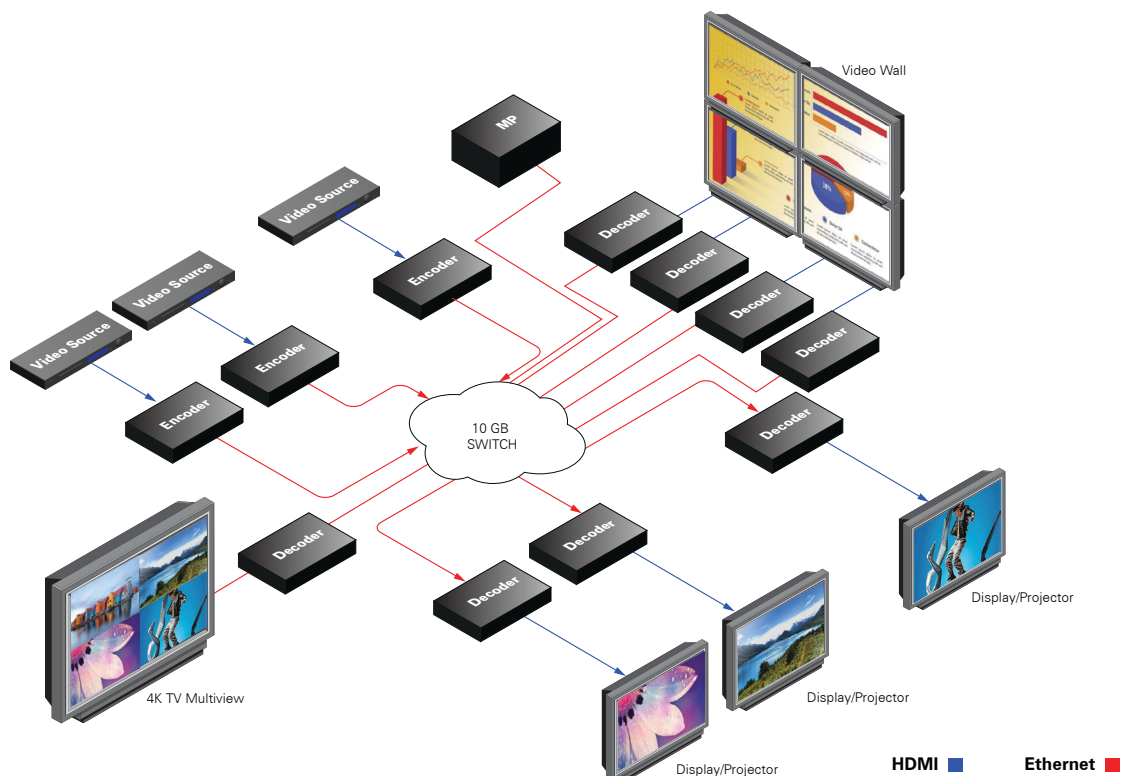
ZyPer4K by ZeeVee allows for the distribution and switching of high definition uncompressed video, audio, and other data signals using ZyPer4K encoder and decoder modules and off-the-shelf 10Gb Ethernet switches (both fiber and copper).

### Feature Summary:

- Uncompressed zero latency UltraHD (4K/60) video, audio, and control using off-the-shelf (OTS) 10Gb Ethernet switches. Support for both analog and digital audio.
- Supports stereo and embedded audio channels up to 7.1 channels.
- 1GbE network port exposed on all encoders and decoders
- Source and display control (Infrared and RS232)
- HDMI 2.0 compliant
- API for system control/monitoring using either ZeeVee management platform, 3rd party control systems or applications (AMX, Crestron, iOS, Android)
- 128 bit AES encryption

ZyPer4K distributes HDMI sources connected into an off-the-shelf 10Gb Ethernet switch to an almost infinite number of displays using either Cat6a copper (or fiber) cabling.

- Video** Up to 4K/60 (Ultra HD)
- Audio** Extends analog audio and embedded digital audio
- Control** Bidirectional communication via RS-232C  
USB  
Infrared Control
- Input options** HDMI 2.0  
3G-SDI  
Display Port 1.3  
Analogue
- Other** HDCP 2.2, (Pass through)  
1 Gigabit Ethernet  
5 x 5 Video wall  
Flexible multiview



ZyPer4K also supports point-to-point installations where a single source is extended over Cat6a or fiber to a single display.

Input		ZyPer4K Encoder	ZyPer4K Decoder
Video	Number/Signal	1 input/HDMI (HDCP: Pass through)	1 input 10Gb Ethernet
	Connector	1 female HDMI Type A (Optional: 3G-SDI, DP, Analogue)	1 Ethernet connector (RJ45 or SFP+ Port)
Audio (Digital)	Number/Signal	1 input/Multi-channel linear PCM up to 8 channels	1 input 10Gb Ethernet
	Connector	1 female HDMI Type A	1 connector
Audio (Analog)	Number/Signal	1 input Stereo LR unbalanced signal	1 input 10Gb Ethernet
	Connector	1 stereo mini jack (3.5 mm)	1 connector
USB (Optional)	Number/Signal	1 input/USB	1 input 10Gb Ethernet
	Connector	1 female USB 2.0 Type B	1 connector

Output		ZyPer4K Encoder	ZyPer4K Decoder
Video	Number/Signal	1 input 10Gb Ethernet	1 output/HDMI (HDCP: Pass through)
	Connector	1 Ethernet connector (RJ45 or SFP+ Port)	1 female HDMI Type A
Audio/Digital	Number/Signal	1 input 10Gb Ethernet	1 output/Multi-channel linear PCM up to 8 channels
	Connector	1 connector	1 female HDMI Type A
Audio/Analog	Number/Signal	1 input 10Gb Ethernet	1 output/Stereo LR unbalanced signal
	Connector	1 connector	1 stereo mini jack (3.5 mm)
USB (Optional)	Number/Signal	1 output 10Gb Ethernet	1 output/USB
	Connector	1 connector	1 female USB 2.0 Type A

Other Specifications		ZyPer4K Encoder	ZyPer4K Decoder
Formats		Supports all major VESA resolutions and variations including: <ul style="list-style-type: none"> <li>VGA: 640x480 (4:3)</li> <li>SVGA: 800x600 (4:3)</li> <li>XGA: 1024x768 (4:3)</li> <li>HDTV: 1280x720 (16:9)</li> <li>SXGA: 1280x1024 (5:4)</li> <li>WXGA: 1366x768 (16:9)</li> <li>SXGA+: 1440x1080 (4:3)</li> <li>UXGA: 1600x1200 (4:3)</li> <li>1080p/i: 1920x1080 (16:9)</li> <li>QXGA: 2048x1536 (4:3)</li> <li>Ultra HD: 3840x2160 (16:9)</li> <li>4K: 4096x2160 (17:9)</li> </ul>	
Video Other		Color depth: 24 bit, 30 bit, 36 bit, 48 bit	
IR		Number/Signal 2 ports (1 input, 1 output) Connector 3.5mm mini jacks	
Ethernet Cable		Cat6a shielded or unshielded twisted pair or fiber optic line (single-mode or multimode)	
Signal transmission distance		Cat6a: 328 ft (approx.) < 100 m> or 30km fiber optic line	
Serial Control Port	Number/Signal	1 port/Full duplex up to 115.2 kbps	
	Connector	1 female 9-pin D-sub (DCE)	
Power input (locking connector)		Input: 100 - 240 VAC ± 10%, 50 Hz/60 Hz ± 3 Hz, Output: 12 VDC 2A (AC adapter is supplied)	
Power consumption		Approximately 15 watts	
Dimensions (l x w x h) / Weight		6.9 in (176mm) x 5.7 in (145mm) x 1.5 in (37mm), 33.9 oz (962 g)	
Dimensions, Long box version		9 in (229mm) x 5.7 in (145mm) x 1.5 in (37mm), 37.4 oz (1060 g)	
Temperature		Operating temperature: 32° F to 104° F < 0° C to +40° C> Storage temperature: -4° F to +176° F < -20° C to +80° C>	
Humidity		Operating/ Storage humidity: 20% to 90% (Non-Condensing)	

Part Number	Description	Part Number	Description
Z4KENCF3	ZyPer4K, Single, HDMI 2.0, (Encoder) Fiber	Z4KDPENCF3	ZyPer4K, Single, HDMI 2.0 with Display Port, (Encoder) Fiber
Z4KDECF3	ZyPer4K, Single, HDMI 2.0, (Decoder) Fiber	Z4KDPENCF3U	ZyPer4K, Single, HDMI 2.0 with Display Port, (Encoder) with USB, Fiber
Z4KENCF3U	ZyPer4K, Single, HDMI 2.0, (Encoder) with USB, Fiber	Z4KDPENCC3	ZyPer4K, Single, HDMI 2.0 with Display Port, (Encoder) Copper
Z4KDECF3U	ZyPer4K, Single, HDMI 2.0, (Decoder) with USB, Fiber	Z4KDPENCC3U	ZyPer4K, Single, HDMI 2.0 with Display Port, (Encoder) with USB, Copper
Z4KENCC3	ZyPer4K, Single, HDMI 2.0, (Encoder) Copper	Z4KANLENCF3	ZyPer4K, Single, HDMI 2.0 with Analogue, (Encoder) Fiber
Z4KDECC3	ZyPer4K, Single, HDMI 2.0, (Decoder) Copper	Z4KANLENCF3U	ZyPer4K, Single, HDMI 2.0 with Analogue, (Encoder) with USB, Fiber
Z4KENCC3U	ZyPer4K, Single, HDMI 2.0, (Encoder) with USB, Copper	Z4KANLENC3	ZyPer4K, Single, HDMI 2.0 with Analogue, (Encoder) Copper
Z4KDECC3U	ZyPer4K, Single, HDMI 2.0, (Decoder) with USB, Copper	Z4KANLENC3U	ZyPer4K, Single, HDMI 2.0 with Analogue, (Encoder) with USB, Copper
Z4KSDIENCF3	ZyPer4K, Single, HDMI 2.0 with SDI, (Encoder) Fiber	Z4KSDIENCC3	ZyPer4K, Single, HDMI 2.0 with SDI, (Encoder) Copper,
Z4KSDIENCF3U	ZyPer4K, Single, HDMI 2.0 with SDI, (Encoder) with USB, Fiber	Z4KSDIENCC3U	ZyPer4K, Single, HDMI 2.0 with SDI, (Encoder) with USB, Copper