

# ZyPer4K™

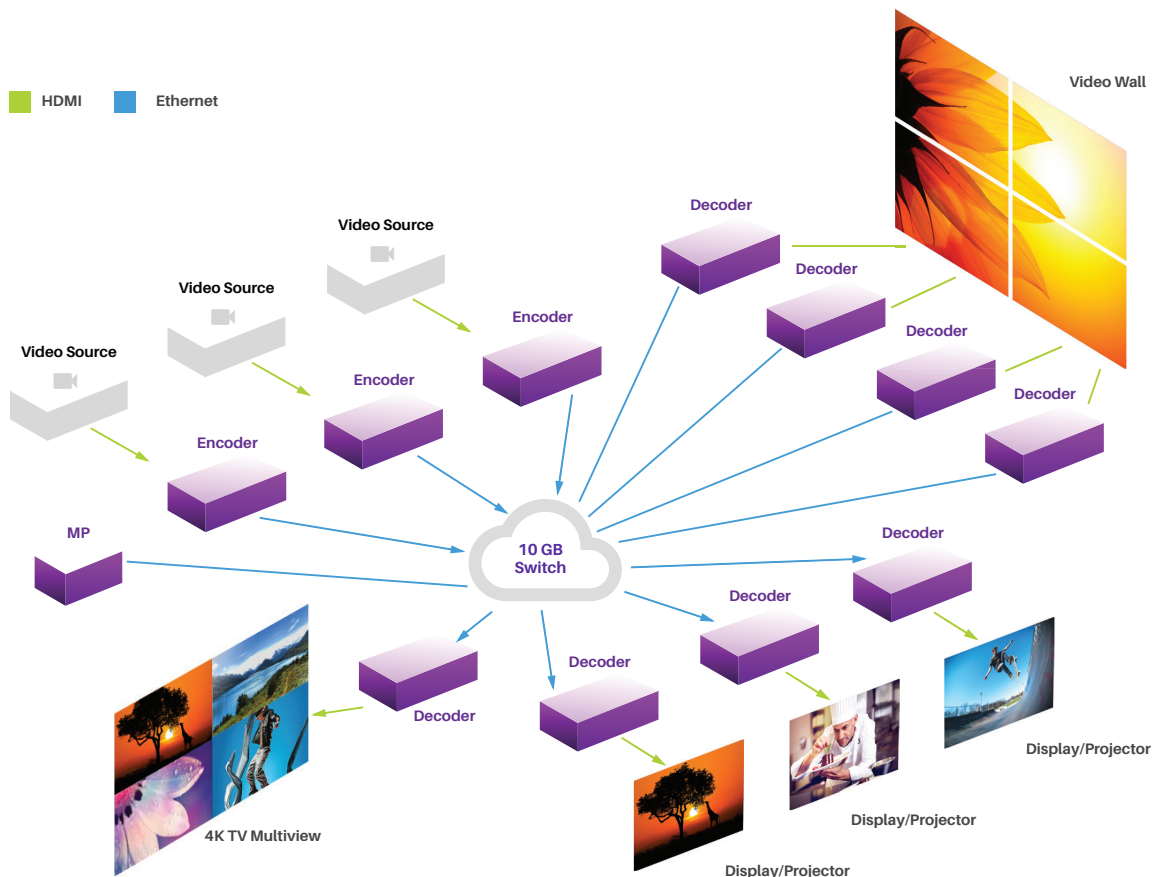
## Zero Latency UHD Video Distribution



The ZyPer4K platform allows for the distribution and switching of high definition uncompressed video, audio, and control 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
- Stereo analogue and digital audio up to 7.1 channels
- 1GbE utility network port on all encoders and decoders
- Source and display control (Infrared and RS232)
- HDMI 2.0 (full 4K 4:4:4 60Hz support)
- HDCP 2.2 compliant
- Supports HDR10, HDR10+ and Dolby Vision
- ZyPerMP (Management Platform) with MaestroZ software GUI allows simple set up and control of ZyPer4K. ZyPerMP also has an open API allowing control via 3rd party systems
- 128 bit AES encryption
- Video wall and multiview support



ZyPer4K Encoder	Information	Connector
Video	HDMI 2.0 with HDCP pass-through (Optional: 3G-SDI, DP, Analogue)	HDMI 2.0 type A, with optional 3G-SDI, Display Port 1.3 or Analogue
Audio (Digital)	Multi-channel linear PCM up to 8 channels (7:1)	HDMI 2.0 type A, with optional 3G-SDI, Display Port 1.3 or Analogue
Audio (Analogue)	Unbalanced Stereo (Input or Output)	3.5mm stereo mini jack
IR	Input/Output ports	3.5mm mini jacks
RS-232	Full Duplex up to 115.2 kbps	9-pin D-sub
USB (Optional)	Single USB 2.0	USB Type B
Ethernet	10 Gb for Video/Audio/Control with 1 Gb Utility	10 Gb RJ45 or SFP+ port 1 Gb RJ45 port

ZyPer4K Decoder	Information	Connector
Video Audio (Digital)	HDMI 2.0 with HDCP pass-through	HDMI 2.0 type A
Audio (Digital)	Multi-channel linear PCM up to 8 channels (7:1)	HDMI 2.0 type A
Audio (Analogue)	Unbalanced Stereo (Output)	3.5mm stereo mini jack
IR	Input/Output ports	3.5mm mini jacks
RS-232	Full Duplex up to 115.2 kbps	9-pin D-sub
USB (Optional)	Dual USB 2.0	2 USB Type A
Ethernet	10 Gb for Video/Audio/Control with 1 Gb Utility	10 Gb RJ45 or SFP+ port 1 Gb RJ45 port

Other Specifications	ZyPer4K Encoder	ZyPer4K Decoder
Formats	Supports all major VESA resolutions and variations including full HDMI 2.0 support: <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> </ul>	<ul style="list-style-type: none"> <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	
Signal transmission distance	Cat6a: 328 ft (100 m) or 30km fiber optic line	
RS-232	1 port/Full duplex up to 115.2 kbps 1 female 9-pin D-sub (DCE)	
Power input (locking connector)	12 VDC 2A (Worldwide AC adapter is supplied)	
Power consumption	Approximately 15 watts	
Dimensions (l x w x h) / Weight Dimensions, Long box version	6.9 in (176mm) x 5.7 in (145mm) x 1.5 in (37mm), 33.9 oz (962 g) 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: 20% to 90% (Non-Condensing)	

Part Number	Description	Part Number	Description
Z4KENC3	ZyPer4K, Single, HDMI 2.0, (Encoder) Fiber	Z4KDPENC3	ZyPer4K, Single, HDMI 2.0 with Display Port, (Encoder) Fiber
Z4KDECF3	ZyPer4K, Single, HDMI 2.0, (Decoder) Fiber	Z4KDPENC3U	ZyPer4K, Single, HDMI 2.0 with Display Port, (Encoder) with USB, Fiber
Z4KENC3U	ZyPer4K, Single, HDMI 2.0, (Encoder) with USB, Fiber	Z4KDPENC3	ZyPer4K, Single, HDMI 2.0 with Display Port, (Encoder) Copper
Z4KDECF3U	ZyPer4K, Single, HDMI 2.0, (Decoder) with USB, Fiber	Z4KDPENC3U	ZyPer4K, Single, HDMI 2.0 with Display Port, (Encoder) with USB, Copper
Z4KENCC3	ZyPer4K, Single, HDMI 2.0, (Encoder) Copper	Z4KANLENC3	ZyPer4K, Single, HDMI 2.0 with Analogue, (Encoder) Fiber
Z4KDECC3	ZyPer4K, Single, HDMI 2.0, (Decoder) Copper	Z4KANLENC3U	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
Z4KSDIENC3	ZyPer4K, Single, HDMI 2.0 with SDI, (Encoder) Fiber	Z4KSDIENC3	ZyPer4K, Single, HDMI 2.0 with SDI, (Encoder) Copper,
Z4KSDIENC3U	ZyPer4K, Single, HDMI 2.0 with SDI, (Encoder) with USB, Fiber	Z4KSDIENC3U	ZyPer4K, Single, HDMI 2.0 with SDI, (Encoder) with USB, Copper



+1 (347) 851-7364 • sales@zeevee.com  
EMEA: +44 1494 956677 • EMEAsales@zeevee.com