

# ZyPerUHD™

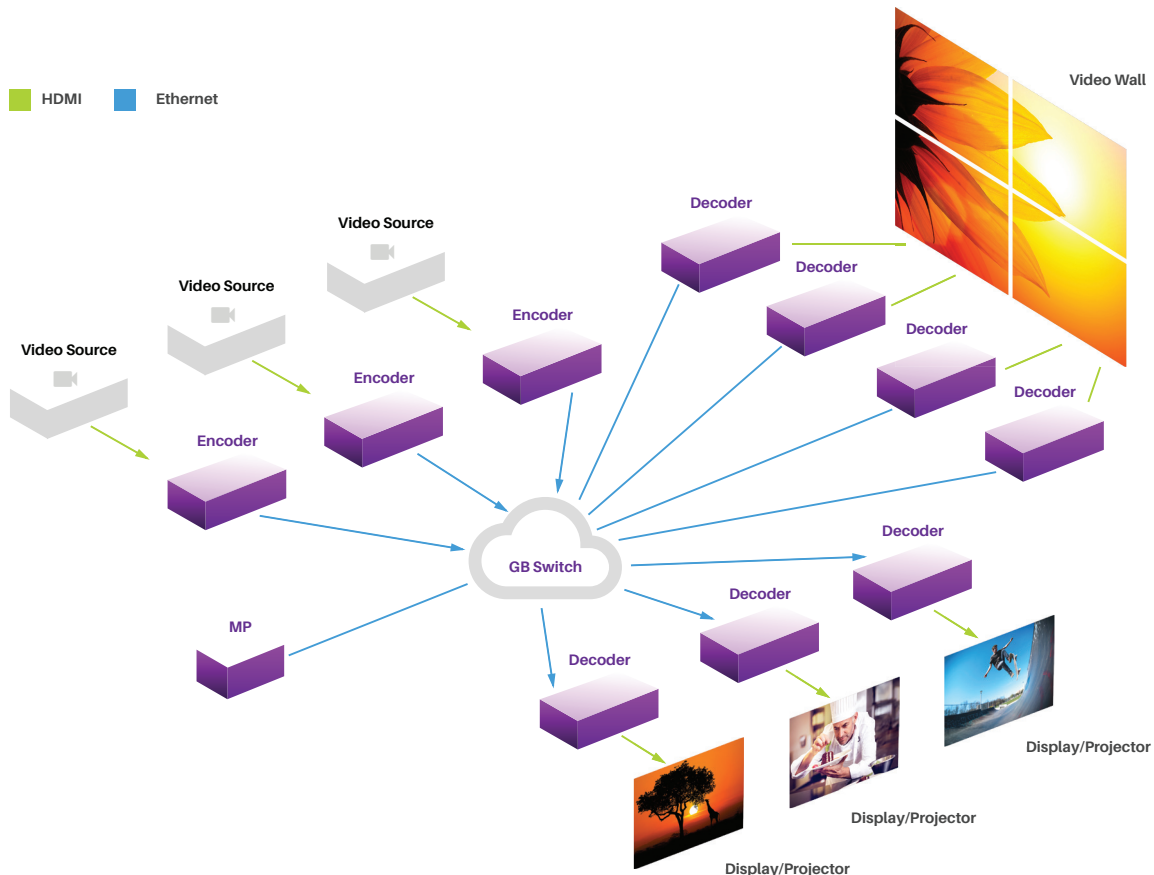
## Ultra High Definition Video Distribution



The ZyPerUHD platform allows for the easy distribution and switching of ultra high definition compressed video, audio, and other data signals using ZyPerUHD encoder and decoder modules and off-the-shelf 1Gb Ethernet switches.

### Feature Summary:

- JPEG 2000 compressed 4K video, audio, and control using off-the-shelf (OTS) 1Gb Ethernet switches. Support for both analogue and digital audio
- ZyPerMP (Management Platform) with Maestro<sup>2</sup> software GUI allows simple set up and control of ZyPerUHD. ZyPerMP also has an open API allowing control via 3rd party systems
- Power over Ethernet support (PoE)
- Ultra low latency (less than 2 frames)
- Supports HDR
- Video Wall support up to 9x9
- Source and display control (RS232, IR, USB)
- HDCP 2.2 compliant
- Wallplate Encoder option
- ZyPerUHD can also be used in a point-to-point configuration to encode a 4K video source across a dedicated copper connection to a display up to 100m away



ZyPerUHD Encoder	Information	Connector
Video	HDMI 2.0a with HDCP pass-through.	HDMI type A (Wallplate: HDMI and VGA 15-pin D-sub)
Video Loopout	HDMI	HDMI type A (Wallplate: NA)
Audio (Digital)	Multi-channel linear PCM up to 8 channels, Encoded formats such as AC3.	HDMI type A
Audio (Analogue)	Balanced Stereo (Input & Output)	Phoenix (Wallplate: 3.5mm jack, unbalanced input only)
IR	Input/Output ports	3.5mm mini jacks (Wallplate: built in sensor)
Serial	Full Duplex up to 115.2 kbps	Phoenix (Wallplate: 3.5mm jack)
USB	Single USB 2.0	USB Type B
Ethernet (PoE)	1 Gb for Video/Audio/Control	1 Gb RJ45 port

ZyPerUHD Decoder	Information	Connector
Video	HDMI 2.0a with HDCP pass-through	HDMI type A
Audio (Digital)	Multi-channel linear PCM up to 8 channels, Encoded formats such as AC3.	HDMI type A
Audio (Analogue)	Balanced Stereo (Output)	Phoenix
IR	Input/Output ports	3.5mm mini jacks
Serial	Full Duplex up to 115.2 kbps	Phoenix
USB	Dual USB 2.0	2 USB Type A
Ethernet (PoE)	1 Gb for Video/Audio/Control	1 Gb RJ45 port

Other Specifications	ZyPerUHD Encoder	ZyPerUHD 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> </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	
Signal Transmission Distance	Cat6a: 328 ft (100 m)	
Power input (locking connector)	12 VDC 1A	
Power consumption	Approximately 6W	
Dimensions	200mm x 120mm x 25mm (LxWxH) Wallplate: 2-Gang Standard box	
Temperature	Operating Temperature +32°F ~ +113°F (0°C ~ +45°C) Storage Temperature -4°F ~ +158°F (-20°C ~ +70°C)	
Humidity	10% ~ 90%, non-condensing	

ZyPerUHD-WE: Wall Plate Encoder



ZyPerUHD-E: Encoder  
ZyPerUHD-D: Decoder

