



# Evertz Native Integration of Zixi’s SDVP® Enables Broadcast-Quality Video Encoding and Delivery at Ultra Low Latency for Modern Media Applications

## SEAMLESS INTEGRATION FOR ULTRA LOW-LATENCY DELIVERY

### AT A GLANCE

#### EVERTZ SOLUTIONS WITH ZIXI INTEGRATION

**XPS SERIES** – A streaming encoder decoder platform that provides high quality encoding at ultra-low latency. This is a key ingredient to empower remote and cloud production applications where latency is a crucial requirement. Supports all popular internet protocols including Zixi to enable reliable transmission of content over unmanaged networks.

#### KEY FEATURES:

- High Density, High Quality and Ultra Low Latency
- Various input types such as SD/HD/3G/12G and HDMI
- Advanced codecs such as H.264 and HEVC
- Up to 16 Channels of Audio with AAC encoding
- Internet protocols such as Zixi, RIST, RTMP
- Bi-Directional Encoding and Decoding on same unit, software configurable
- XPS is available in various options providing users the flexibility to pick single, dual or quad channel models

To enable remote and cloud production applications, content providers require a reliable way to stream high-quality content over unmanaged networks while maintaining ultra-low latencies.

This integrated offering of Evertz and Zixi enables broadcast-quality encoding and decoding and bi-directional paths in various form factors with error-free delivery over any IP network, including the public Internet, with the ability to command and control workflows from one central control plane.

## WORLD-CLASS LIVE VIDEO STREAMING SOLUTIONS FOR BROADCASTERS

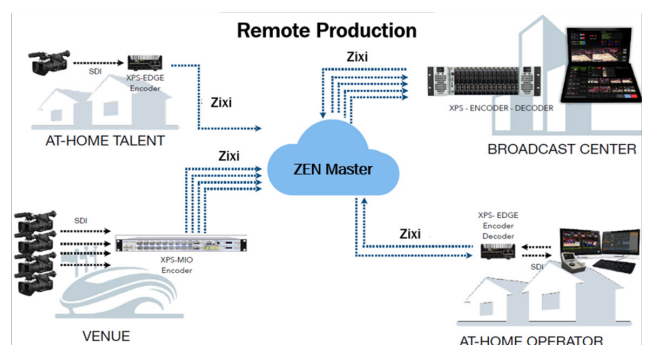
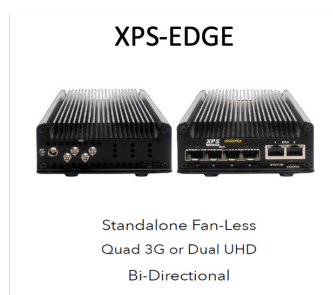
The XPS Series is part of the Evertz lineup of video infrastructure solutions for television, telecommunications and new-media industry applications, such as 4K field contribution, remote production, monitoring return feeds, remote collaboration and cloud production.

A flexible and scalable platform that is both modular and standalone, XPS supports up to four simultaneous 1080p50/60 HD video encodes or decodes that can be configured in software to switch between either a four-channel encoder, four-channel decoder or a combination of two encodes and two decodes. The XPS Series also enables up to 2160p50/60 4K UHD video resolutions with 32 channels of audio and different compression standards such as HEVC or H.264 over any IP network. XPS also uniquely supports real-time ultra-low latency with the highest video quality for 24/7 up-time applications.

## DELIVER QUALITY CONTENT INTO THE CLOUD OVER THE PUBLIC INTERNET AT ULTRA-LOW LATENCY FOR MODERN APPLICATIONS

Evertz’s Zixi integration enables high quality encoding and delivery of HD/UHD content at ultra-low latency over any IP network, including unmanaged Internet connections, for mission critical applications like Esports, live newsgathering and high-profile entertainment events.

Evertz XPS offers software configurable encode, decode and bi-directional paths in various form-factors for ultimate flexibility, leveraging the Zixi protocol for reliable, error-free live content delivery over any IP with up to 45% packet loss recovery. When also utilizing Zixi’s ZEN Master control plane, users can orchestrate, monitor and manage the Evertz XPS from anywhere in the world using one single interface to access the entire system. Using Zixi for reliable contribution over the Internet, content providers can easily on-ramp content to the cloud or send back to a central location for production.



## KEY ZIXI BENEFITS

- **Reliability** – Contribute source streams with 99.999+% broadcast reliability; hitless failover provides redundant transmission options for higher reliability and disaster recovery
- **Low Latency** – With network adaptive Forward Error Correction and recovery, proven sub 1 second live linear latency
- **Security** – Zixi provides best-in-class security enhanced with DTLS and AES standards-based protection
- **Interoperability** – Zixi is compatible with the largest ecosystem of encoding devices and contribution sources
- **Centralized Management** – ZEN Master can provide a centralized view of the entire Zixi-enabled contribution and distribution network

## ABOUT EVERTZ

Evertz provides leading end-to-end broadcast solutions for all aspects of broadcast production including content creation, distribution and delivery. It has decades on experience in designing, manufacturing and installing highly sophisticated broadcast infrastructure, and delivers cutting edge solutions in the industry in both hardware and software. Evertz delivers products and solutions that can be found in major broadcast facilities on every continent.

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## ABOUT ZIXI

Zixi provides the cloud based and on-premises Software-Defined Video Platform (SDVP®) that enables reliable broadcast-quality video delivery over any IP network, any protocol, any cloud provider and any edge device. The company offers technologies for broadcasters, enterprises, over-the-top video providers, sports leagues, service providers, cable operators and Telcos around the world, giving them the lowest TCO in the industry. Many of Zixi's clients are delivering and managing thousands of streams, and there is no other alternative in the market that can provide 99.999%+ reliability at scale. Zixi simplifies building and managing congestion-aware live video routes on any network, with support for 18-protocols across any operating environment, with products that are purpose built to provide market leading performance, universal interoperability and an operational control plane that simplifies management and orchestration at scale. With 15+ years of innovation and expertise, the Zixi Enabled Network has grown to over 1000+ media customers and 400+ OEM and service providers that deliver 20,000+ channels daily, with 110,000+ deployed instances in over 120 countries, gathering over 9 billion data points a day while delivering over 100,000 live sporting events a year. This powerful ecosystem of the largest media organizations in the world exchanging live video allows for the creation and acceleration of new content acquisition, business models, and opportunities to reduce cost and generate revenue. [www.zixi.com](http://www.zixi.com) | [sales@zixi.com](mailto:sales@zixi.com)

## END-TO-END PROTECTED CONTRIBUTION LEVERAGING ZIXI

With the industry leading Zixi protocol, the **Software-Defined Video Platform (SDVP)** is the only solution that can provide five and six nines availability utilizing patent pending sequenced hitless and bonded hitless failover over mixed IP networks such as internet, fiber, satellite and cellular.

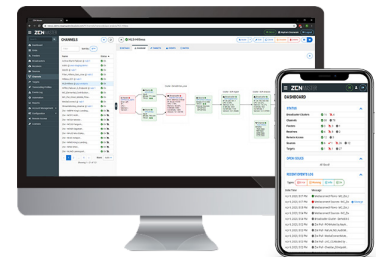
The **Zixi protocol** is a resilient congestion and network-aware protocol that adjusts to varying network conditions and employs patented, dynamic Forward Error Correction techniques for error-free video transport over IP with 99.999+% uptime at minimal latency. With minimum overhead to physical bandwidth, the Zixi protocol removes jitter, recovers and re-orders packets, smooths video delivery enabling the streaming of broadcast-quality video over any distance, while overcoming the varying network conditions of unmanaged networks.

Zixi's **Video Solutions Stack** provides essential software tools and core media processing functions that allow for transcoding, auto-slating and time-shifting over multiple transmission paths and bitrate adaptation to ensure reliability over any IP network and any protocol.

## SIMPLE STREAM CONFIGURATION, ORCHESTRATION AND MONITORING AT SCALE WITH ZEN MASTER

To orchestrate, monitor and manage live streams at scale, Evertz users can choose to leverage ZEN Master, Zixi's cloud-based control plane that allows for the simple configuration, orchestration and monitoring of the devices and appliances that are part of the video transport network.

With ZEN Master, easily create live streaming workflows and access content anywhere in the world.



Zixi's ZEN Master UI

## KEY ZEN MASTER BENEFITS

- **Multi-Cloud Infrastructures** - (AWS, GCP, Azure) allow for agile scalability
- **Root Cause Analysis** - Detection and isolation across streams and environments
- **Automation** - Schedule a set of tasks and run them with a single click
- **Enhanced Reporting** - Granular reporting provides key data, including usage reports, status summaries, and up-time and outage reporting
- **Monitor Global System Health** - Confirm QoE and QoS – ZEN Master offers TR101, Content Quality Analytics, Business Impact Analytics, AI Quality Scoring
- **Workflow Visibility at Scale** - Scale from one to hundreds of channels easily while maintaining control over and visibility into the entire workflow