evertz **ZIXI**

SEAMLESS INTEGRATION FOR ULTRA LOW-LATENCY DELIVERY

EVERTZ'S NATIVE INTEGRATION OF THE SOFTWARE-DEFINED MEDIA PLATFORM ENABLES BROADCAST-QUALITY VIDEO ENCODING AND DELIVERY AT ULTRA LOW LATENCY FOR MODERN MEDIA APPLICATIONS

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, RTMPS

- 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

ZIXI ZEN MASTER CERTIFIED

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.

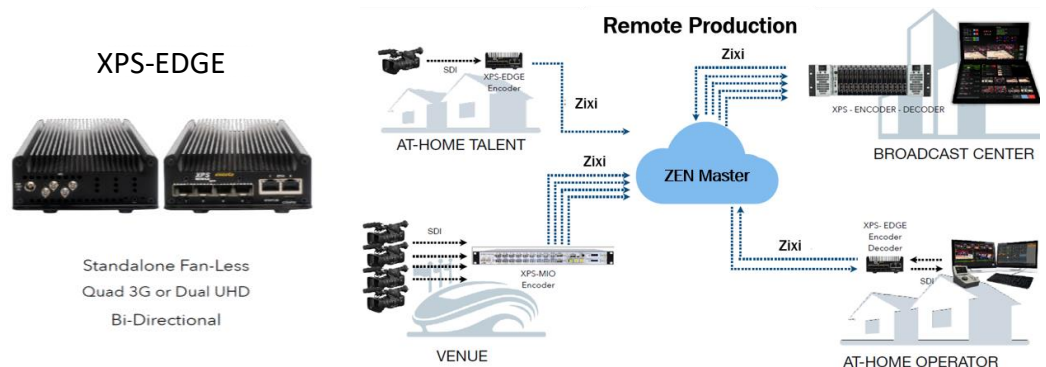## WORLD-CLASS EQUIPMENT SOLUTIONS FOR MODERN BROADCASTERS

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.

XPS-EDGE

Standalone Fan-Less
Quad 3G or Dual UHD
Bi-Directional

Remote Production

Zixi

SDI → XPS-EDGE Encoder

Zixi

AT-HOME TALENT

Zixi

ZEN Master

Zixi

XPS - ENCODER - DECODER

BROADCAST CENTER

SDI

XPS-MIO Encoder

XPS- EDGE Encoder Decoder

Zixi

SDI

VENUE

AT-HOME OPERATOR

evertz **ZIXI**

EFFICIENT BROADCAST-QUALITY DELIVERY OVER ANY IP NETWORK

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

Visit: www.evertz.com
Contact: sales@evertz.com
Watch Our Zixi-Evertz Webinar On-Demand: Link

ABOUT ZIXI

Zixi provides a cloud based and on-premise software Platform enabling the management, orchestration, monitoring, and delivery of broadcast-quality live and live linear video over managed and unmanaged IP networks to broadcasters, enterprises, over-the-top video providers, and mobile service providers around the world. Over 10+ years, the Zixi Enabled Network of partners has grown to over 300 OEM and service providers with whom Zixi serves well over 700 media customers around the world with 20,000+ channels delivered daily.

Contact: 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.
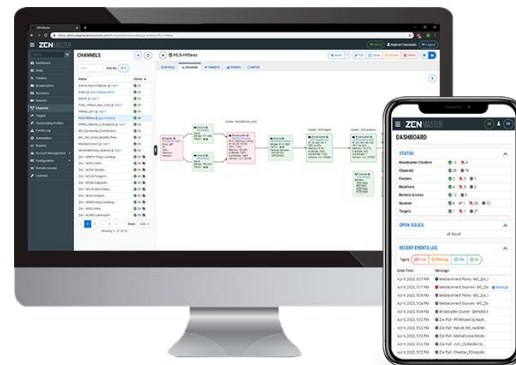
The **Zixi protocol** is a resilient congestion and network-aware protocol that adjusts to varying network conditions and employs patented, dynamic Forward Error Correction techniques for error-free video transport over IP with 99.999+% uptime at minimal latency. With minimum overhead to physical bandwidth, 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 Support** – Integration with multiple cloud infrastructures (AWS, GCP, Azure) allows 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

- **Access to Zixi's Intelligent Data Platform** – Use advanced analytics, AI and ML to digest historical and real-time data and alert on stream health before issues occur