



# CUTTING-EDGE COMPRESSION AND AV-OVER-IP

Solutions for Manufacturers

## OUR CODECS IP CORES & SDK

Start designing with the most innovative range of JPEG XS codecs, created to replace uncompressed video with lossless quality, microsecond latency and ultra-low power consumption on any processors.



### Lossless, Zero Latency, Any Content Type

Support any resolutions with HD from 150Mbps, 4K from 400Mbps, 8K from 800Mbps,... It fits the CAT5 cables and Gigabit Networks, with up to 4:4:4 and up to 12-bit.



### Proxy and Bandwidth Optimization

A unified codec for sending also low-bandwidth, low-resolution proxy streams, enhancing network efficiency.



### World's Fastest Software Codec

Compatible with any CPU and GPU (AMD, Intel, Apple, Nvidia) and any OS (Linux, Windows, macOS), featuring low-latency APIs and integration add-ons.



### Low Power & Tiny IP Cores

Designed for AMD and Altera FPGAs, with multiple pix/clock encoder and decoder options. Includes high & TDC profiles, with add-ons for SMPTE 2110-22/IPMX RTP and AES encryption.

## OUR AV-OVER-IP SOC EDK & SDK

Start designing with our new pre-built development kits and get boosted with standards-based networked video and audio capabilities for streaming low-latency, high-quality video with SMPTE 2110, JPEG XS and IPMX.



### ARM SoC Acceleration

EDK optimized for ARM64 SoCs (including also Nvidia SoC or AMD Adaptive FPGA SoC) with 1GbEth.



### Optimized for Workstations and Servers

SDK, fully compatible with standard CPUs, multi-core processors, and discrete GPUs for flexible hardware usage and high performance.



### Compliant

Supports SMPTE ST 2110-22 (compressed video using JPEG XS), and ST 2110-30 (audio) standards with NMOS registration



### Customizable

Offers flexibility in developing custom applications, tailored to various real-time streaming needs. intoPIX team can provide assistance (including design services) to make your project a success.

Stand Out in Pro-AV  
Simplify Connectivity  
Preserve Quality with Zero Latency

# COMPATIBLE & BOOSTED WITH A SET OF STANDARDS

intoPIX is actively involved in several international standard organisations, as a co-author or contributor.

Our IP Cores, SDK, and EDK adhere to industry standards, enabling you to accelerate compatibility and strengthen partnerships.



SMPTE ST 2110 is covering the industry's vision on Video & Audio Transport over IP networks.



IPMX (from AIMS) is extending SMPTE ST 2110 capabilities with a set of additions (VSF TR10) designed for Professional AV.



The JPEG ISO Committee developed JPEG XS. intoPIX is one of the co-creators of the standard.



NMOS (from AMWA) is enabling control and interoperability between AV devices.

## INTOPIX SOLUTIONS FOR MANUFACTURERS



Accelerate and simplify your development process with intoPIX.

Our cutting-edge solutions deliver high-performance, low-latency audio-video technology, perfect for developers leveraging JPEG XS, IPMX, and SMPTE ST 2110.

Benefit from comprehensive support in high-end compression and AV-over-IP. intoPIX offers unmatched flexibility, top-tier performance, and user-friendly tools for corporate, education, live events, and professional AV applications.

HDMI AV Encoders & Decoders  
SDI AV Encoders & Decoders  
Cameras  
Multi-Viewers  
Video Walls  
Led Processors  
KVMs  
Wireless AV devices  
AV-over-IP Systems  
Media Players

## STAND OUT IN PRO-AV



Transition to Bandwidth-Efficient Interoperable AV-over-IP Workflows



Reuse Infrastructure, Cut Costs, Power Consumption and Carbon Footprint for HD, 4K & 8K



Lossless Quality, Zero Latency in Software and Hardware

### The World Smallest & Fastest Codec

intoPIX Codec IP Cores, SDK, and Streaming Solutions offer advanced JPEG XS support with ultra-low latency, high performance, and unique features. Designed for HD, 4K, and 8K, they are compatible with FPGA, ARM SoC, CPU, and GPU.

### Your Path to Innovation & Interoperability

intoPIX seamlessly integrates into AV-over-IP workflows, providing manufacturers with unique selling points. Enjoy high-quality technologies with Add-Ons, Sub-Systems, and Examples for easy integration with SMPTE 2110 and IPMX.

### Run Efficiently on Chip & Software

intoPIX Solutions are optimized for efficiency in both FPGA and software, supporting any resolution, processor, and OS.

### Cost-Effective & Scalable for IP

Leverage standard 1G/2.5GbE interfaces for robust performance on existing gigabit equipment and COTS infrastructure, ensuring a cost-effective, high-quality AV workflow.