

# JPEG 2000 Development Kit

l e a d i n g t h e w a y

## ■ Use our Development Kit

- As an off-the-shelf product (encoder or decoder)
- To get familiar with the JPEG 2000 format
- To test and assess intoPIX's IP-Cores

## OVERVIEW

In collaboration with Omnitek, intoPIX offers you the opportunity to test and to become more familiar with its JPEG 2000 encoder and decoder IP-Cores.

intoPIX JPEG 2000 Development Kit provides a simple and effective means of evaluating JPEG 2000 IP-Cores. This enables faster evaluation without incurring the time and cost penalties of in-house PCB design and manufacture.

Through intoPIX, you will be able to order the AVDPLX110T or AVDPSX95T boards from Omnitek. These boards allow users to evaluate, to prototype, and create application-specific designs. The Development Kit contains everything needed to fully test and demonstrate the intoPIX JPEG 2000 encoding and decoding IP-cores.

## FEATURES

- 1 JPEG 2000 IP-Core (See «Ordering Information»).
- Board Interfaces:
  - PCI Express x4 interface (Up to 1Gbyte/s transfer rates).
  - Dual HDSOI in and Dual HDSOI out supporting SD, HD and "3G" protocols including :
    - 720p / 50, 59.94, 60Hz (SMPTE 296M)
    - 1080i / 50, 59.94, 60Hz (SMPTE 274M)
    - 1080p / 23.98, 24, 25, 29.97, 30Hz (SMPTE 274M)
  - 4:4:4 and 4:2:2 are both supported.
- Virtex5 LX110T or Virtex5 SX95T FPGA.
- 2 independent banks of 512 Mbytes: 64-bit DDR-2 SDRAM operating at 266MHz.
- 4 x 36Mb QDR-II SRAM devices operating at 250MHz.
- API functions to set JPEG 2000 parameters.
- API documentation & IP-Core user manual.
- Software
  - Windows and Linux SDK, including Drivers & API for the JPEG 2000 encoder or decoder.
  - 1 runtime license per selected IP-core.

- Low-cost capture playout card with local processing and high PC bandwidth

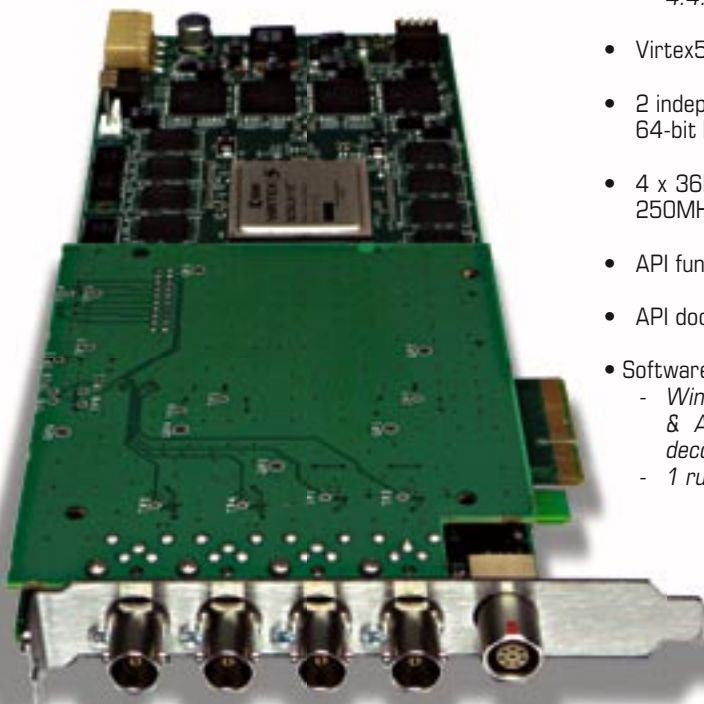
- Single board able to test multiple JPEG 2000 configurations

- Windows and Linux software included

- Can be directly integrated into the end-user system

- Easy connection to PC

- Easy to use (plug & play)



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## APPLICATIONS:

With the AVDP Omnitek board you will be able to use JPEG 2000 IP-Cores in a multitude of applications:

- Digital Cinema.
- High Definition.
- Archiving with a mathematically lossless compression.
- Your application.

## ■ Get your JPEG 2000 board !

### CONTACT INFORMATION :

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Web : www.intopix.com

### ORDERING INFORMATION

IP-Cores	Description
IPX-JP2K-Enc.	JPEG 2000 encoder 2K DCI compliant IP-Core
IPX-JP2K-Dec.	JPEG 2000 decoder 2K DCI compliant IP-Core
IPX-JP1HD-Enc.	JPEG 2000 encoder HD Visually Lossless IP-Core
IPX-JP1HD-Dec.	JPEG 2000 decoder HD Visually Lossless IP-Core
IPX-JP1HD/2K-MLS-Enc.	JPEG 2000 encoder HD/2K Mathematically Lossless IP-Core
IPX-JP1HD/2K-MLS-Dec.	JPEG 2000 decoder HD/2K Mathematically Lossless IP-Core

## ■ About intoPIX s.a.

intoPIX develops and commercialises high-end image processing and security tools in large data streams with high intrinsic value. The applications are aimed especially at pictures having demanding requirements in quality, security and authoring rights. Based in Louvain-la-Neuve (Belgium), intoPIX was established in 2005, quickly becoming the international reference for hardware JPEG 2000 coding solutions.

intoPIX's world leading expertise includes FPGA and software engineering, JPEG 2000 image compression and symmetric-asymmetric security.

intoPIX's solutions are dedicated to the Digital Cinema, Camera, Field Recorder, Video Server, Broadcast contribution and Wireless transmission areas.

**Ask us how to bring your JPEG 2000 project to life!**



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