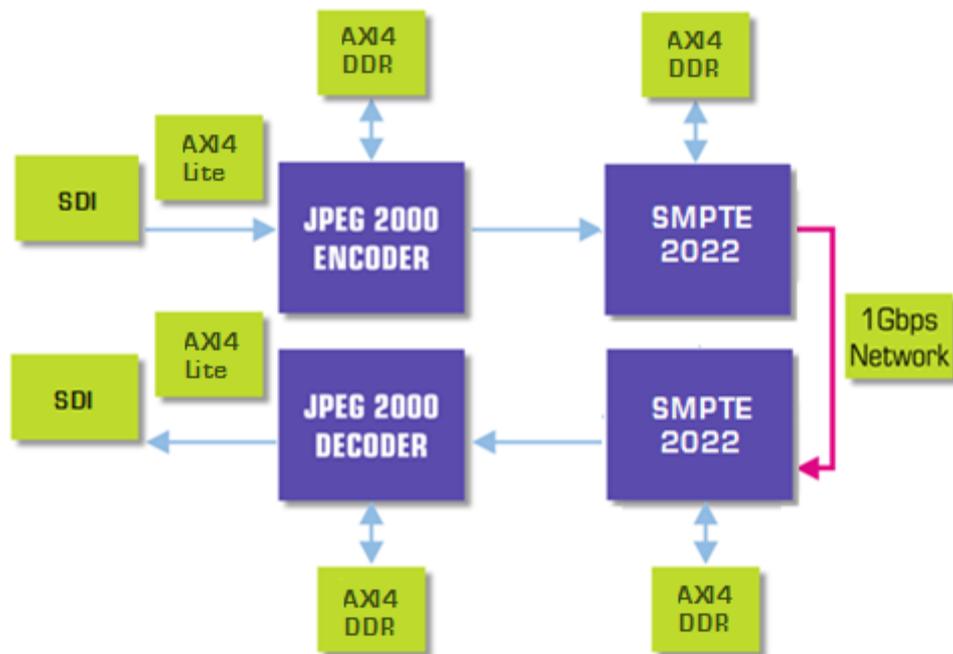# JPEG 2000
Reference Application

SMPTE 2022
Xilinx Kintex-7® - KC705

SUMMARY

The Xilinx SMPTE 2022 JPEG 2000 application features a full chain of video over IP transmission using the Xilinx Kintex-7 evaluation Kit, intoPIX JPEG 2000 powerful and flexible codec IP-cores and Xilinx SMPTE 2022 IP-cores.
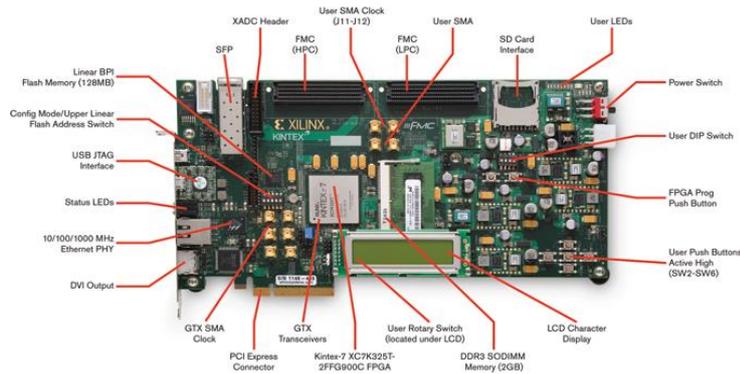

BENEFITS

- intoPIX JPEG 2000 IP-cores for any Xilinx FPGAs
- Xilinx SMPTE2022 standard for encapsulation over IP – IP-cores
- Powerful and flexible codec – HD & Ultra HD 4K - Visually Lossless compression
- Ultra Low Latency option (to go down to 5ms)
- Standard Interfaces for fast prototyping
- Reference application and IP-cores available from intoPIX

XILINX®

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secure image technology

www.intopix.com

Take IMAGING to the NEXT LEVEL

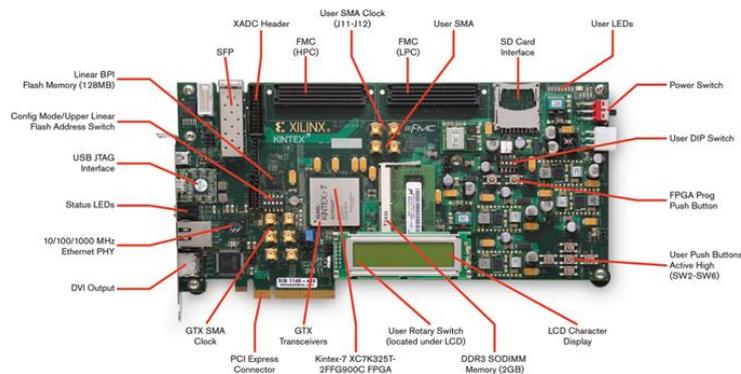## JPEG 2000 ENCODER + SMPTE2022

3G-SDI inputs

RJ45 out

1 Gbps

JPEG 2000 DECODER + SMPTE2022

3G-SDI ouptuts

RJ45 in

APPLICATIONS

- Live High quality Contribution
- Live Compression and Streaming in Cameras

STANDARDS REFERENCE

Once the JPEG 2000 is encapsulated as a TS, the user can employ SMPTE 2022-2 to map the stream onto an IP network. Alternatively, the JPEG 2000 video plus audio as ancillary data could be mapped into an MXF wrapper. Once wrapped, it is conceivable that this stream could be transported using SMTPE 2022-6.

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