

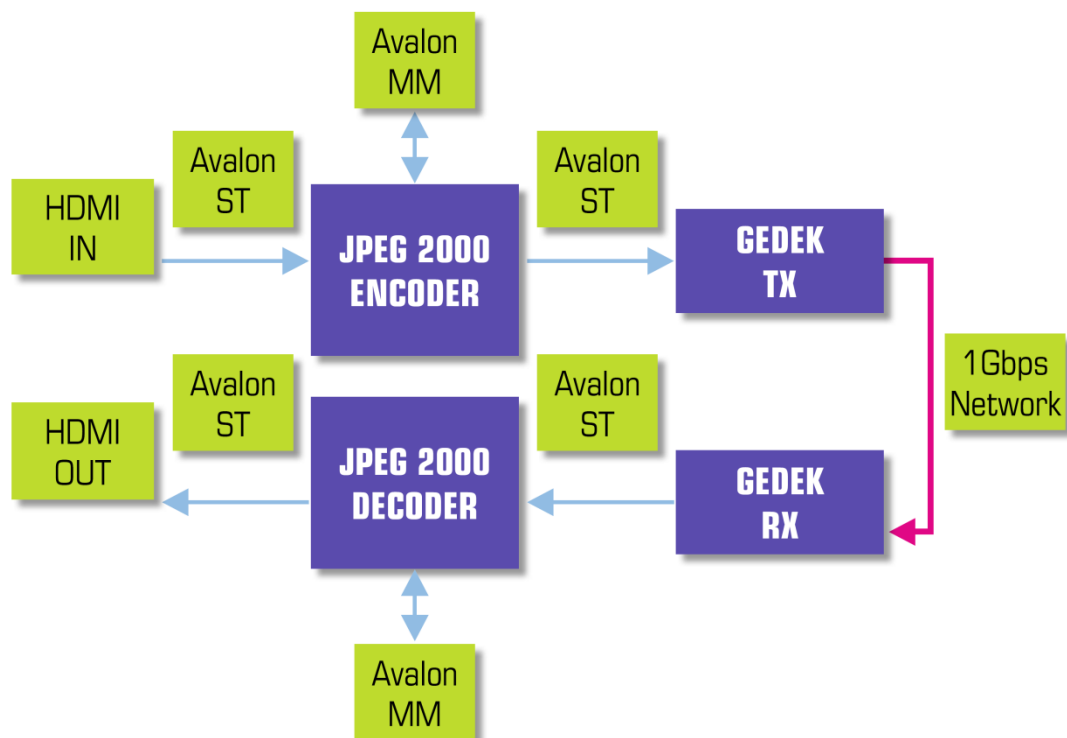
JPEG 2000 Reference Application

VIDEO over IP Altera Cyclone® V GX

SUMMARY

intoPIX reference JPEG 2000 application features a full chain of video over IP transmission using the Altera Cyclone V GX FPGA Development Kit , intoPIX JPEG 2000 compact codec IP-cores – optimized for Cyclone V FPGA and Also GEDEK Streaming IP-cores.

This reference application is using standardized Altera IP-cores interfaces in order to enable a fast integration in your design. It is easy to port the full design, to customize it or to use only the IP-cores necessary for your application.



BENEFITS

- **JPEG 2000 IP-cores for low cost FPGAs**
- Full HD 60fps • Visually Lossless compression • Low latency
- Standard Interfaces (Avalon® ST) to connect to VIP
- (Video & Image processing suite) for fast prototyping
- Reference application and IP-cores available from intoPIX
- High quality compression and transmission
- Compact codec – Low footprint implementation



JPEG 2000 ENCODER

1920x1080 up to 60hz



**HDMI Receiver
Daughter Card**



RJ45 out

Up to
1Gbps
transmission



JPEG 2000 DECODER



**HDMI Transmitter
Daughter Card**



RJ45 in

APPLICATIONS

- KVM extenders, Remote display controllers, Video over IP
- Professional Wireless Transmission
- Built in camera compression
- Transfer of High Resolution images in Limited Bandwidth : use Standard connections/components with low complexity codec in small FPGA devices

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