

Description

The R11F MPEG-4 AVC/H.264 Encoder is a broadcast quality real-time encoder designed for live streaming applications using FPGA acceleration tightly coupled with general purpose CPUs. Leveraging technological expertise from ASIC and CPU designs, the R11F provides the best of both worlds in a scalable OPEX friendly platform for a high density of video transcoding.

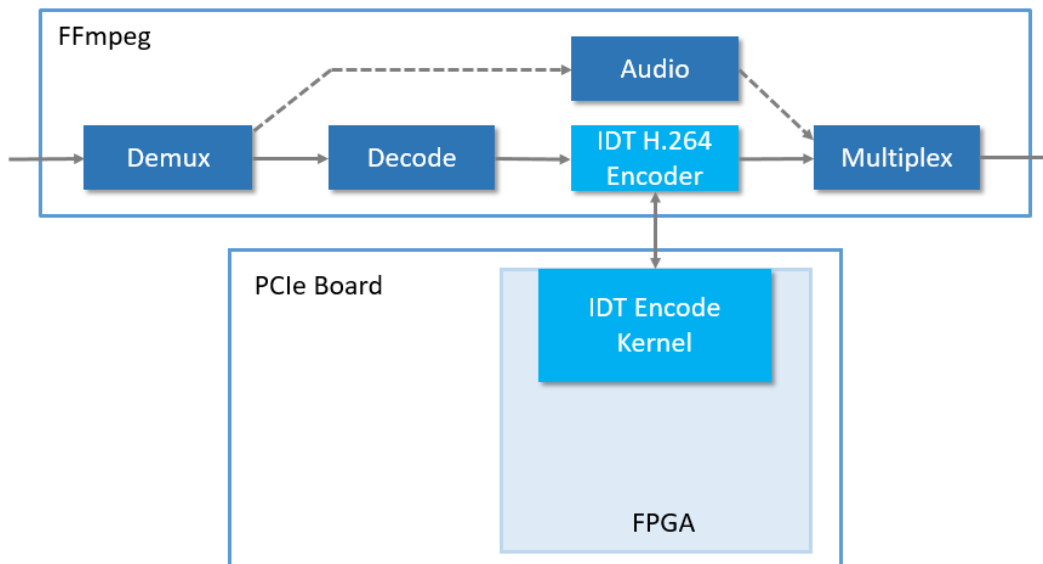
Typical Applications

- Cloud Video Services
- Adaptive Bit Rate streaming
- High Density Video Transcoding

Features

- Multiscreen optimized H.264/MPEG-4 Encoder
- IDR aligned multiple resolution outputs for OTT packaging
- Dense encoder with support up to 6x HD AVC per FPGA
- Unique Computational Control System for highly efficient content adaptive encoding to maximize video quality
- Seamless integration into existing cloud workflows with FFmpeg framework plug-in support
- Live and File Input/Output
- H.264 profiles: high, main, baseline
- Dynamic GOP structure with up to 7 B frames
- Large hierarchical motion estimation
- Exhaustive professional mode search
- Low hardware latency
- Unlimited, adaptive GOP structure
- User set intra refresh rate.
- Scene change detection
- Fade detection
- Skin tone detection
- Adaptive quantization

Block Diagram



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