

Title: Bufferless video encoding for biomedical applications on sub-one-dollar FPGA devices

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Abstract: Biomedical applications are usually a frontier area for developers and testers of small-sized electronic devices. When dealing with image and video inputs the overall complexity of algorithms and circuits still represents a major obstacle for commercial adoption of innovative techniques. In this work a novel technique for online video compression will be presented, showing a real application capable to compress HD-video signals by using a sub-dollar FPGA component, without any access to external DRAMs. Mechanical footprint: 4 x 4 mm BGA.

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