

VID475

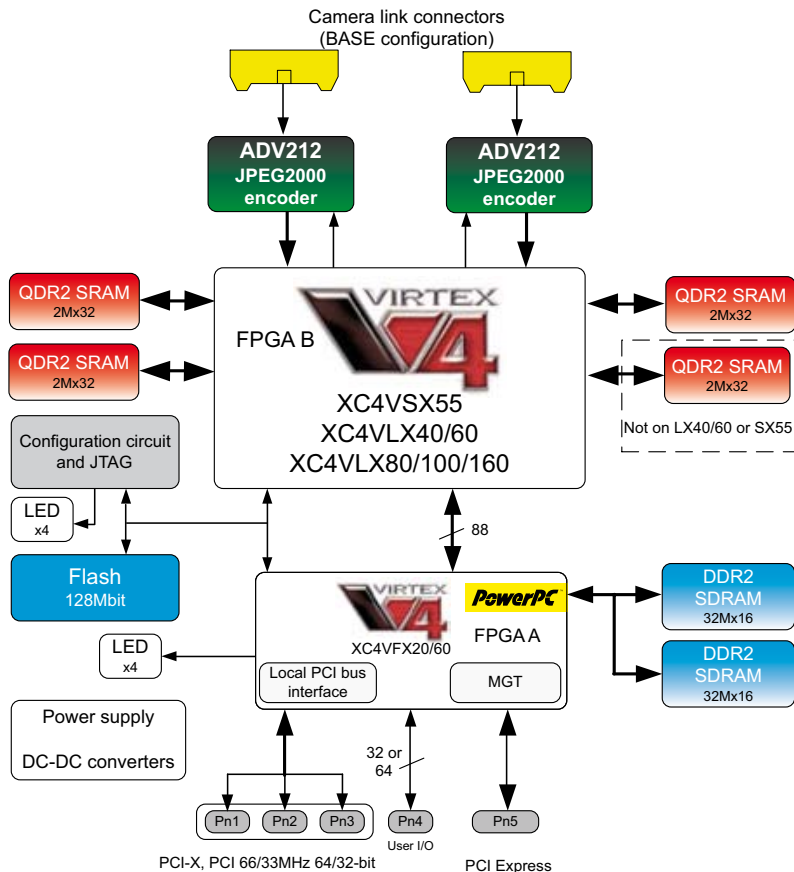
JPEG 2000 compression

Description

The VID475 features a JPEG2000 hardware compression solution. It is based on the ADV212 codec devices suitable for on-the-fly compression prior or after the imaging processing implemented on the Virtex-4 FPGA device.

The VID475 has two Xilinx Virtex-4 FPGA devices and some fast on-board SRAM and DRAM memory resources. It is the most efficient hardware compression solution available with embedded processing power.

The flexibility of the architecture and the use of the Camera-Link standard makes this solution universal for digital imaging systems.



Applications

- Digital film compression and storage
- Satellite video frame recording instruments
- High-definition X-ray frame recording
- Medical line scan cameras
- Microscopy, radiology and biopsy analysis
- Mobile imagery instruments
- Low-weight digital video broadcasting
- Real-time loss-less imaging compression

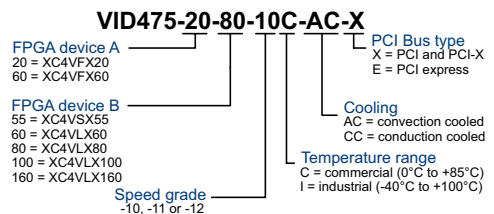
Features

- Two JPEG2000 (ADV212) CODECs
- Two BASE Camera-Link interfaces
- Virtex-4 FX, LX or SX FPGA architecture
- Large SRAM and DRAM resources
- Front panel external I/O expansion options
- Embedded processor
- Optimized IP Cores
- PCI-X 64-bit 133/66MHz

Software support

- Board control and monitoring tools
- Flash programming utility
- Confidence tests
- Host side API
- Software program example
- Xilinx ISE projects for both FPGAs
- Test firmware and VHDL source code
- Drivers for Windows, Linux or VxWorks

Ordering information



www.4dsp.com/VID475