

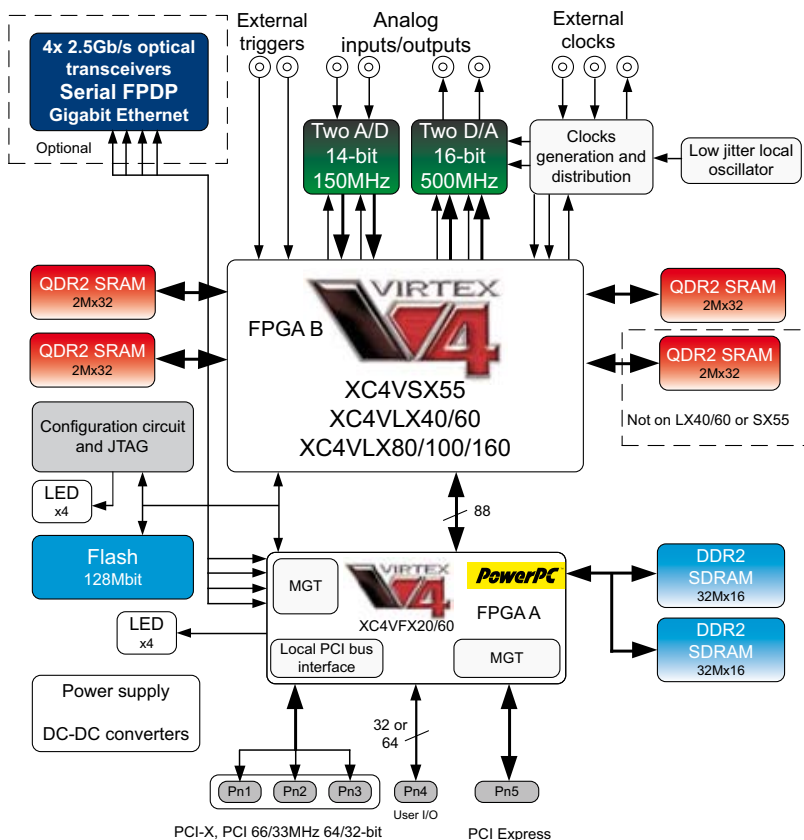
AD450

Dual ADC and DAC channels

Description

The AD450 is a PMC expansion card designed for MIMO and wireless processing systems. The AD450 features two 14-bit A/D channel inputs sampling up to 150MSPS, and a dual-channel 16-bit high-speed D/A converter with integrated 2x, 4x and 8x interpolation filters.

The AD450 is the ideal prototyping system to implement flexible and scalable multi-input and multi-output antenna transmitter systems. For instance, it is possible to design a MIMO-based OFDM testbed to simulate or emulate multiple mobile radio communication channels.



Applications

- MIMO baseband transceivers
- Wireless communication receivers
- Test and measurement instruments
- Holographic data storage equipments
- Motor control applications
- Aerospace measurement instruments
- Video and imaging algorithms (DVB-C...)
- Low-power medical MRI equipments

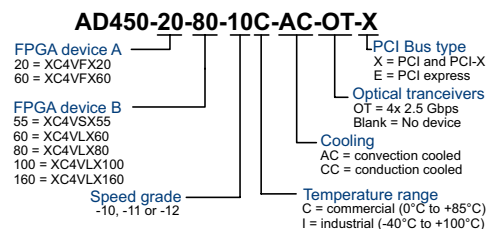
Features

- Two A/D channels, 150MSPS, 14-bit
- Two D/A channels, 500MSPS, 16-bit
- Custom external clock and trigger inputs
- Front panel LVDS I/O expansion
- Virtex-4 FX, LX or SX FPGA architecture
- High-density QDR2 and DDR2 devices
- PCI-X 64-bit 133/66MHz
- Serial FPDP with optical transceivers

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/AD450