**FM482**

**Virtex-4 PMC DSP accelerator**

**Description**
The FM482 is a high performance PMC/PMC-X/XMC expansion card designed for DSP applications requiring high-bandwidth and complex algorithms. Bundled with various interfaces, fast onboard memory resources, two Virtex-4 FPGA devices and optical transceivers, the FM482 delivers the highest level of performance and flexibility for real-time acquisition and processing in the most demanding environments. The FM482 is the ideal prototyping and test platform to validate dedicated FPGA IP cores for 4DSP’s signal processing algorithms.

**Applications**
- High-bandwidth data storage solutions
- RADAR/SONAR signal processing
- Video and imaging processing
- Software defined radio (SDR)
- FFT, convolution/correlations
- Polyphase filter banks
- SAR processing
- Data acquisition

**Features**
- Virtex-4 FX, LX or SX based platform
- Large SRAM and DRAM resources
- PowerPC to run embedded software code
- Optimized FPGA IP cores
- PCI-X 64-bit 133/66MHz, PCI 32-bit
- Standalone operating mode
- Conduction cooled option
- Optional: four serial FPDP

**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**

![Diagram](https://www.4dsp.com/FM482)