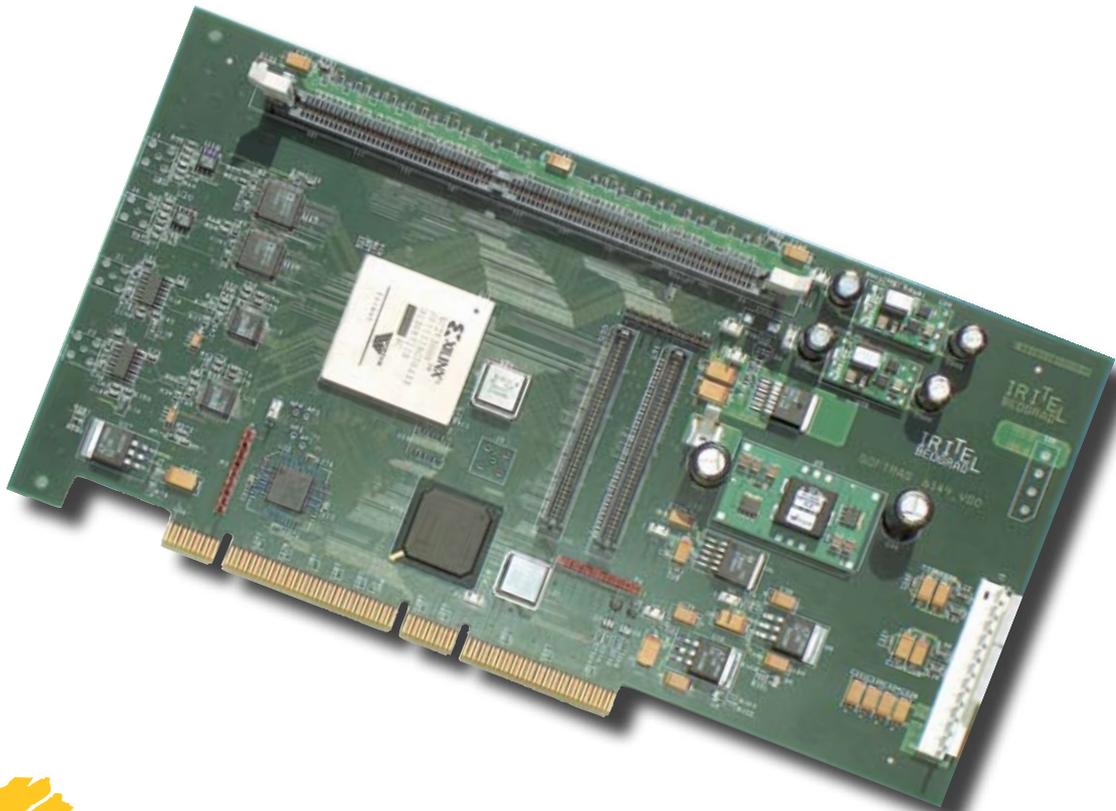




SOFTRAD

Platform for systems development and evaluation in the fields of Software Defined Radios

- Provides fast development and implementation of advanced systems in the fields of Software Defined Radios, Wireless IP development, Signal Intelligence, Software RADAR and Advanced Video
- PCI hardware accelerator based on FPGA technology
- Software for PC applications development, supported with C/C++ and MATLAB software



Radio Communications

IRITEL
bright
40
years

TELECOMMUNICATIONS AND ELECTRONICS

<http://www.iritel.com>

e-mail: info@iritel.com

SOFTRAD - development and evaluation platform

SoftRad platform

SoftRad consists of FPGA-based PCI hardware accelerator, supported with C/C++ and MATLAB APIs for PC host desktop application development.

Platform provides fast prototype production and implementation of advanced systems in the fields of Software Defined Radios, Wireless IP development, Signal Intelligence, Software RADAR, Advanced Video, and other emerging fields.

SoftRad hardware

SoftRad hardware is PCI 64/33 system for deep signal intercept, generation and co-processing. It combines Virtex-II FPGA (up

to eight-million gates in FF1152 BGA package), with dual 105 MSPS 14-bit analog input channels, dual 150 MSPS 14-bit analog output channels, and DDR SDRAM deep memory buffer (to 1 GB)

SoftRad software

SoftRad software subsystem is application program interface providing fast communication between User PC host application and User design in FPGA.

SoftRad software provides framework for fast PC host system development and hardware configuration and system control.

TECHNICAL DATA

- PCI 2.2 compatible
- FF1152 Xilinx Virtex-II FPGA, up to eight-million gates
- 2 x 105 MSPS 14-bit A/D converters
- 2 x 150 MSPS 14-bit D/A converters
- Programmable clock solution
- Two expansion 80-pins ports, TI daughter card expansion specification compatible
- DIMM 184 DDR SDRAM slot (up to 1 GB)

Layout detail

SOFTRAD - block diagram

