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Special Price University DSP/FPGA Development Systems

Sundance have created a range of DSP/FPGA systems specifically for Universities at specially low prices for research and development.

PRODUCTS

- [MIMO-LTE](#) - Standalone Multiprocessor MIMO System
- [RADIO GIGA](#) - Multi-channel Radio System
- [SDR-2](#) - Software Defined Radio System
- [WiMAX](#) - Standalone Multi-processor Wi MAX System
- [DVIP](#) - Digital Video Infrastructure Platform
- [VisionMAX-1](#) - Multi-processor Video-Imaging kit
- [AVIS](#) - Advanced Video Imaging System
- [SMT8000 Series](#) - Industrial Control and Automation

MIMO-LTE - Standalone Multiprocessor MIMO System

Sundance's MIMO Kit is an advanced development platform featuring a complete baseband solution designed to develop "wireless" applications.

Based on a multiprocessor concept, the system is fully supported by 3L Diamond RTOS and FPGA codesign tool-suite. It is an easy-to-use task-based design model and user friendly integrated development environment.

A typical flexible 2x2 MIMO platform consists of dual RF transceivers for 2.4GHz and 5GHz ISM bands to directly connect two antennas, several analogue-to-digital and digital-to-analogue data channel converters and a combination of multi-DSP and FPGA processor devices with dedicated memory.

MIMO is scalable to n x m MIMO channels.


[More Information](#)

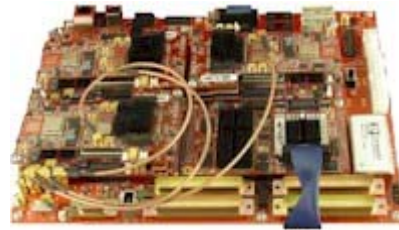
RADIO GIGA - Multi-channel Radio System

The Radio Giga development platform from Sundance provides designers with a Cross Technology Platform (XTP) that is flexible, user configurable by processing fabric, architecture, communication ports and protocol.

Radio Giga XTP integrated cutting edge multiprocessing technologies and backwards compatibility with already deployed architectures.

Up to six low-power GHz A/D channels enable RF-to-baseband processing applications with an architecture based on a mixed of dual 1GHz C6455 TI cores, multiple Xilinx Virtex-5 and Virtex-4 reconfigurable nodes and embedded PowerPC.

Being 1U compliant, Radio Giga delivers incredible rack real-estate efficiencies and offers both Gigabit Ethernet and USB interconnect.



[More Information](#) ▶

SDR-2 - Software Defined Radio System

Our newest special university offer is an all-in-one hardware development platform with all the software drivers and design tools for Windows® XP 32-bit included.

The software development is based on 3L Diamond multiprocessor tool-suite: an easy-to-use design model and user friendly integrated development environment.

Diamond supports industry-standard design languages (ANSI-C and VHDL). It also allows FPGA IP cores and DSP software libraries to be reused through a task-based design.

The SDR-2 development kit is delivered with a hardware / software framework project to insure engineers' project kick-start.



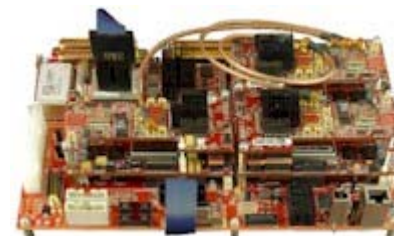
[More Information](#) ▶

WiMAX - Standalone Multi-processor Wi MAX System

Sundance's WiMAX is an advanced modular development platform featuring a complete baseband solution designed to develop "wireless" applications.

Based on a multiprocessor concept, the WiMAX is fully supported by 3L Diamond RTOS and FPGA codesign tool-suite. It is an easy-to-use task-based design model and user friendly integrated development environment.

A typical flexible WiMAX transceiver platform consists of dual RF transceivers for the band 2.3-2.7GHz to directly connect two antennas, several analogue-to-digital and digital-to-analogue data channel converters and a combination of multi-DSP and FPGA processor devices with dedicated memory.



[More Information](#) ▶

DVIP - Digital Video Infrastructure Platform

Responding to the need for high bandwidth in HD video applications for broadcast, video surveillance and compression technologies, the DVIP platform offers a complete and fully integrated solution for digital video systems.

Built on Sundance's modular and scalable multiprocessing concept, the DVIP platform leverages the performance and flexibility of two TI C6455 digital signal processors and a DM642 DSP-based digital media processor.

The 1GHz C6455 DSPs allow multiple processors to be connected via a Serial Rapid I/O (SRIO) interface.



Additionally, the infrastructure platform incorporates Xilinx Virtex-4 FX60 devices with the capacity to implement FPGA IP Cores from leading compression suppliers to perform real-time encoding and decoding.

[More Information](#) ▶

VisionMAX-1 - Multi-processor Video-Imaging kit

VisionMax-1 is an advanced development platform featuring a complete imaging solution designed to develop real-time "video" applications.

Based on a coprocessor concept, the VisionMAX systems are fully supported by 3L Diamond RTOS and FPGA tool-suite. It is an easy-to-use task-based design model and user friendly integrated development environment.

Being a flexible & scalable platform, it has multiple video I/Os (PAL, Camera-Link, DVI...), video CODEC, a combination of DSP and FPGA processor devices with dedicated ZBT SRAM and SDRAM resources.

VisionMAX is scalable to multiple DSP processing units. Embedded in an air-cooled industrial chassis, all I/Os are accessible from the rear panel.



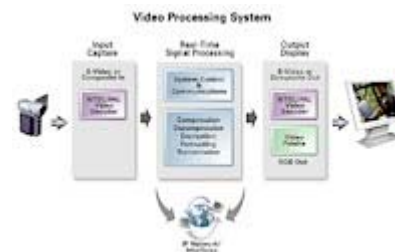
[More Information](#) ▶

AVIS - Advanced Video Imaging System

SUNDANCE proposes a Special University Offer for an Advanced Video Imaging solution based on the SMT339 hardware platform and full software tools. It includes also full integration and compatibility with MATLAB/Simulink® tools for co-simulation and co-design, enabling automatic generation of both C and VHDL code directly from the user's Simulink® schematics.

The package is a highly professional system based on DSP, FPGA and Video interface technologies.

The SMT339 is a high-performance architecture for I/O interfacing, pre-processing, processing and display of any type of data, including standard and non-standard industrial cameras; it can be used in many applications, such as Robotics, Automation, Video Surveillance, Digital TV, etc. The module features a single Philips Semiconductors SAA7109AE/108AE video decoder/encoder accepting as input most PAL and NTSC standards. Processed images can be output as PAL, NTSC or VGA (1280x1024, or HDTV Y/Pb/Pr).



[More Information](#) ▶

SMT8000 Series - Industrial Control and Automation

SUNDANCE propose Special University Offers for Industrial Control, Automotive, Sonar, Space/Physics and Precision Automatics solution based on PCI and Stand-alone platforms and full SW tools for Windows and Linux environment. In addition to this, it includes full integration and compatibility with Simulink/Mathworks® tools for simulation and DSP/VHDL code generation.



The package is a highly professional system based on DSP, FPGA and DAQ technologies.

The proposed solutions are Control Kits: SMT8001, SMT8002, SMT8003 and SMT8004.

More Information ▶

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