

If you do not want to receive eNews, or you would like a colleague to be offered future issues, please use the links at the bottom.

### Is massive parallelism enough?

All the "newswires" are talking about the long-awaited SMT362 recently launched onto the embedded systems market by Sundance. The SMT362 is well known as the hardware reference for the popular HD digital video broadcasting plans and the baseband processing for emerging 3.5 and 4G of telecommunication standards.

The SMT362's two DSPs are built with the newest and enhanced C64x+ core, improving algorithm parallelism and reducing code size. Its FX60 FPGA is directly mapped into the DSPs' memory maps to exchange data via the EMIF interface. The massive resources of the FPGA make it like a giant pre and post processor unit for the DSPs.

The Virtex-4 also features 2 embedded PowerPC cores, which may be used as coprocessors, various interfaces such like Gigabit Ethernet and Rocket-IO transceivers allow rapid communication to the outside world. Large DDR2-SDRAM capacity can serve the most demanding algorithms whilst the Flash ROM transforms this data processing module into a complete standalone solution.

[More Details](#)

### Zoom in on the VxWorks Driver support

Real-time embedded technology is an important element in most of the recent electronic applications. VxWorks is a real time architecture and operating system targeting the RTOS market.

The Sundance platforms support the famous VxWorks development environment using the latest [SMT6065](#). The software interfaces for the SMT6065 driver and the user API use the generic C++ programming language. The SM6065 also includes software examples fully tested and validated for VxWorks version 5.4 and Tornado version 2.0.

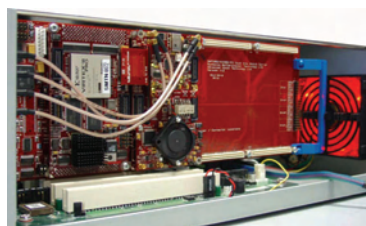
Operating systems like VxWorks, designed for real-time embedded environments have a master control program that can provide immediate response to input signals and transactions.

Support is provided for the Sundance's SMT310 and SMT310 Quattro carriers for the PCI-based environments ; SMT300 and SMT300 Quattro for the compact PCI-based industrial environments and PXI instrumentation systems.

VxWorks completes the range of OSs supported: Windows ([SMT6025](#), [SMT6026](#)), Linux ([SMT6035](#), [SMT6036](#)) and QNX ([SMT6055](#)).

[More Details](#)

### Sundance promotes Academic Research



*SDR-Development Station, for the Smart Radio Challenge*

Sundance is proud to offer Universities the opportunity to access high-speed signal processing solutions based on the latest technologies. Over 80 universities worldwide have already joined the Sundance University program to kick-start their R&D projects. Sundance has selected three main platforms according to the main interest of the recent research groups: [Software Defined Radio](#), [Advanced Video-Imaging](#), [Industrial control & Radar processing](#).

[More Details](#)

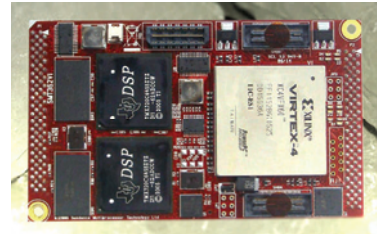
[SDR Forum](#) has selected [SUPELEC](#), a French Grande Ecole of Engineering, to participate at the [Smart Radio Challenge '07](#). SUPELEC and the [Signal, Communication and Embedded Electronics Research Team](#) aim to resolve the [communication interoperability](#) question for cognitive radio supporting multiple standards. SUPELEC has chosen the proven Sundance SDR-DS to develop their advanced engineering project with confidence.

Questions or comments? Please email me at [feedback@sundance.com](mailto:feedback@sundance.com)

If you would prefer not to receive future issues of eNews, you may [unsubscribe](#). To make sure you get the future issues of eNews, you may [subscribe](#).

Sometimes anti-spam services stop you reading what you want. To be sure your regular copy of eNews does not get blocked, just add the Sundance email address [listmembers@sundance.com](mailto:listmembers@sundance.com) to the list of "Safe Senders" in your email program.

December 2006



[SMT362](#).

*Dual C6455 DSPs & Virtex-4 FX60*

### Newsletter Spotlight

- [SMT362](#)
- [SMT6065](#)
- [SDR-Development Station](#)
- [University promotions](#)
- [Distributors](#)
- [Previous eNews](#)



Sundance wish you a Merry Christmas!

