

Sundance Newsletter

April 2025

SUNDANCE

Discover our Latest Ventures and Achievements from this Month

Enhancing Search and Rescue Operations

Search and rescue operations happen in tough conditions: poor visibility, dangerous terrain, and time pressure. Drones help, but without accurate altitude control, they risk crashing or missing key targets. GPS and barometric sensors often give unreliable data. Teams need better tools to keep drones stable and effective in unpredictable environments.

US-D1 Radar Altimeter for Search and Rescue.



AINSTEIN™

The solution is Einstein's US-D1 radar altimeter. It gives drones real-time, precise altitude data, even in fog, rain, or over rough terrain! Unlike GPS or barometric sensors, it works in all conditions. It keeps drones stable, low-flying, and responsive, helping teams search faster, safer, and more effectively in time-critical environments.

Find out more about Einstein's US-D1 radar altimeter by clicking the link below.

[Read More](#)

PCIe Architecture: A City in Motion

Think of PCIe like a city. The Root Complex (RC) is city hall, organising communication, allocating resources, and setting rules. Endpoints (EPs) are the devices, like GPUs, SSDs, and NICs, that rely on the RC to function. At system startup, the RC discovers and configures each device. This setup keeps data flowing efficiently between components, like traffic in a well-run city.

An Introduction to PCIe Technology.



FPGAs add flexibility to this PCIe city. They can act as either RCs or EPs, making them ideal for custom setups in HPC, networking, or acceleration tasks. Sundance's PCIe solutions, such as the SMT835, offer this flexibility with ready-to-deploy hardware or tailored systems built to your spec, without high upfront engineering costs.

Read the full blog on PCIe architecture and custom FPGA solutions from Sundance.

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"I am extremely satisfied with the service I received from Sundance. I was in desperate need of repairing these cards as there were no replacement parts available in the market. Sundance went above and beyond to ensure that my needs were met and that my electronic cards were fully functional again. I'm sure I will recommend your services and, of course, your products to anyone who needs this kind of service, especially those who are struggling to find replacement parts in this market." - Armando Escorcia

Sundance Multiprocessor Technology Ltd, 20 Chiltern House, Waterside, Chesham, Bucks HP5 1PS,
United Kingdom, Tel: 01494793167

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