

Company

High-Reliability Engineering & Components Corporation

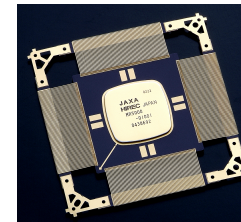
Founded in 1988

The company was founded to provide services that will ensure the high reliability of space-use components that are vital for the space system, to improve component manufacturing and procurement technologies, and to supply stable components and operations that will guarantee the high qualities of rockets and space satellites. The company also conducts a broader range of business, such as development of semiconductor components for space, third party guarantee for system design, satellite experiment support, system support for maintenance of reliability technology standards.

Product

Radian resistant device --

We design radian-resistant component circuits for space parts (Radiation Hardness By Design primitive cell, RHBD Latch, RHBD FF, etc.) with Tanner EDA tools. With this radian-resistant technology, we undertake semiconductor component development of space micro processor or memory as commissioned business from JAXA.



320MIPS64bitMPU for space --
0.18 μ m CMOS process cell base IC
MPUcore : MIPS5Kf™ 64bitMPU
This part is JAXA-approved as a
common part for space development

Comment



“It’s our greatest strength to be in a position to develop space-use components , able to design and evaluate ideas for radial rays in house. Tanner EDA provided the necessary functionality at an affordable price, so we could realize such an environment .”

-- Akiko Kajiwara, Principal Engineer, Technical Dept.

Contributing to differentiation of product

“Because there were no suppliers that could take action on radial rays of space component ICs, we didn’t have any way to design and verify. We surely had ideas, though. But now, by taking on Tanner EDA tools, we have been able to build up the environment to design and verify component ICs in house. Thanks to Tanner EDA, we were able to use our advantage regarding radial rays to bring us differentiation from the rest.”

Building up know-how for radial ray IC

“By designing and verifying our idea in house, it became possible for us to build up know-how and get the license for radial ray ICs with JAXA. “

Tanner EDA is simple

“Tanner EDA’s highlight is that their tool setups are simple and friendly. The other tools need CAD controller or PDK, but with Tanner EDA we can easily set up for ourselves. When we want to use general files provided by a foundry, like DRC or LVS, etc., we can use them without any anxiety by simply specifying the file on the menu, because Tanner EDA tools runs with confirmed compatibility.”