



iRoC Technologies Corporate Fact Sheet

Business Overview

iRoC Technologies Corporation is one of the world's leading commercial providers of soft error solutions for integrated circuits (ICs). iRoC provides soft error testing, optimization tools, and protection services that help semiconductor companies estimate the reliability risks of soft errors and eliminate them during the chip design process. Caused by atmospheric radiation, soft errors have historically been a major concern for aerospace and aviation markets, and are now also the fastest growing reliability problem for semiconductors.

Soft Error Solutions

Test Services:

Soft error testing of customer products at all levels of complexity from simple test chip devices to complete systems. iRoC offers two principal types of testing Accelerated Soft Error Testing using a neutron beam and a small sample of product or Real Time Soft Error Testing which takes longer and requires a much larger number of products. The Accelerated Testing is offered in a shuttle concept to customers in order to optimize the neutron beam facilities that iRoC has qualified. The Real Time Tests are performed as requested by customers using iRoC qualified sites at high elevation and underground.

EDA Tools:

A software offering used by engineers to simulate and analyze their products sensitivity to soft errors during the design phase. Product offering addresses each level of design complexity from transistor level for handcrafted and memory designs up to full System on Chip designs. These software tools leverage iRoC's soft error expertise and models to provide engineers both transactional speed and accuracy.

Design Services:

A professional services offering to assist customers achieve the soft error rate they need. Offering is customized to the individual needs of each customer, ranging from the development of soft error models for non standard semiconductor processes to money back guarantees on the successful completion of a soft error qualification test for a customers' device.



History and Financing

iRoC Technologies was incorporated early in 2000 as a spin-off from the renowned French Lab, TIMA (CNRS). First round financing was obtained in 2001 from AXA Private Equity Division of AXA Insurance (NYSE-AXA), Banexi Ventures-an investment arm of BNP (Paris-BNPQF.PK), and Innovacom-an investment division of France Telecom (NYSE-FTE).

Patent Portfolio

At present, iRoC Technologies has eight patents awarded and four pending, all focused on soft error solutions including:

- Transparent testing of integrated circuits
- Strong security interface based on concurrent checking
- Logic circuit protection against transient disturbances
- The capability to decontaminate electronic circuits from transient errors
- Circuit architecture protection from transient disturbances

Executive Staff

- Marc Derbey CEO
- Olivier Lauzeral President and GM of iRoC Technologies Corp.

Board

- Jo Borel, ST micro (retired) President
- Bernard Courtois, TIMA labs Secretary
- Francois Scolan, Innovacom Member
- Yervant Zorian, Virage Logic Member
- Marc Derbey, iRoC Member
- Olivier Lauzeral, iRoC Member

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