



About Novocell Semiconductor

Novocell Semiconductor Inc. was one of the first companies established to commercialize OTP (One Time Programmable) memories in 2001.

Since then Novocell engineers have worked closely with our customers, constantly innovating to meet their ever-changing and demanding needs, and driving our business forward. That singular focus on working intimately with our customers to create unique solutions to challenging memory problems has provided us with the opportunity to develop relationships with virtually all worldwide chip fabrication foundries, from the largest 1st tier players to smaller, competitive 3rd tier firms. It has also spurred Novocell to develop the most comprehensive product offering catalog in the industry.

When You Choose Novocell, You Choose the Leader.

Novocell is the innovator in antifuse one-time programmable memory; our long term OTP NVM patents have *never* been challenged nor has our technology's 100% reliability ever been matched by any competitor. Novocell's innovation and reliability stand alone.

Unmatched Support to Make Chip Design Easier.

Since 2001 Novocell has lead the industry in reliable OTP memory with its unique patented programming method that leads the industry in ease of use and functionality. Our approach has always been to provide the customer with the best support and quickest integration—now embodied in our exclusive SWIFT2Chip program. And Novocell's NVM technology is readily available as well as fully scalable from conventional .35 μm on up, as well as down to 28nm and beyond.

A Tradition of Innovation in NVM

Novocell Semiconductor's history:

- 2001 - Company founded by semiconductor veteran engineer
- 2002 - First patent application for unique OTP NVM
- 2004 - First patent granted for NovoBlox® utilizing **SmartBits™** technology
- 2004 - Novocell creates the integrated 'DONE' programming signal
- 2004 - First OTP NVM introduced without need for external charge pump
- 2004 - Novocell achieves memory access times of <8 nsec, nearly 10X faster than competitors
- 2005 - 100% NVM reliability target met
- 2006 - NovoBlox **Serial** launched
- 2007 - First 65nm customer design (TSMC)
- 2009 - Novocell launches industry's 1st MTP NVM product, NovoBlox **2ⁿTP™**
- 2009 - Novocell verifies IP technology scalability to 28nm in testing
- 2011 - Novocell launches **NovoBits™** IP, targeting eFuse/PolyFuse market

It's a great time to consider a change to Novocell.

It has been over ten years since Novocell began creating better memory solutions; we have spent those years quietly helping customers around the world set new standards for product quality and reliability. Novocell's core technology is fully mature and reliable—having been used in millions of customers' end products with unmatched reliability.

Now is the perfect time to consider the silicon-proven, legally uncontested, 100% reliable, standard CMOS-compatible OTP NVM technology from Novocell.

NovoBlox OTP is silicon proven at leading fabs including **IBM, TowerJazz, TSMC, UMC, Global-Foundries, and SilTerra.**