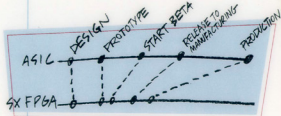


# How the SX FPGA's industry-leading ease-of-speed beats the clock and the competition in short-product-lifecycle markets.



telecommunication,

data communications,

data acquisition and instrumentation,

high-speed computer peripherals.

Often named as the toughest markets in the world, these sectors are under constant pressure to not only make products with higher performance, but to constantly adopt shifting, value-added features.

In the last twenty years, both the complexity and the number of variations of a single product roughly doubled while product lifecycle and delivery times were cut in half.

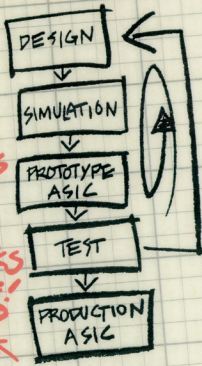
But what really haunts product managers is the fact that total profits earned on a product will shrink by 30 percent if merchandising dates are six months past target dates.

These markets need the performance of a gate array, but not at the expense of market timing.

## The Actel SX. The easy high-performance alternative to gate arrays.

With specs like 0.6 ns input setup time and 4.0 ns clock-to-out, the Actel SX FPGA family can match the performance of a gate array and

HOW MANY ITERATIONS??



4 WEEKS LEAD TIME!

12 WEEKS LEAD TIME!

WHY?

interface effortlessly with other components in performance-critical applications.

What is more important is the ease with which these high-performance benchmarks can be attained. The SX will give you ASIC-like levels of performance without architecture-specific design code.

**Use — and reuse — generic RTL synthesis code and hit high-performance goals your first time through.**

No need for data pipelining, instantiation of structural HDL or other architecture-specific performance-enhancing techniques. Even the I/O cells in the SX are designed for easy high performance. No instantiation of I/O cells is required to achieve the fast pin-to-pin and clock-to-output performance.

For detailed information on how the SX can replace a gate array in your design, call 1-888-99ACTEL or visit [www.actel.com](http://www.actel.com)

