

Custom IO:

The Competitive Advantage you need!

Custom IO and ESD are an opportunity for any and every product to gain real competitive advantage.

Do you need features your competitors don't have? Do you need to exceed performance of standard foundry offerings? Maybe you need a smaller footprint for that cost effective package?

Certus Semiconductor is the world leader in unique, competitive, and highly effective custom IO and ESD solutions.

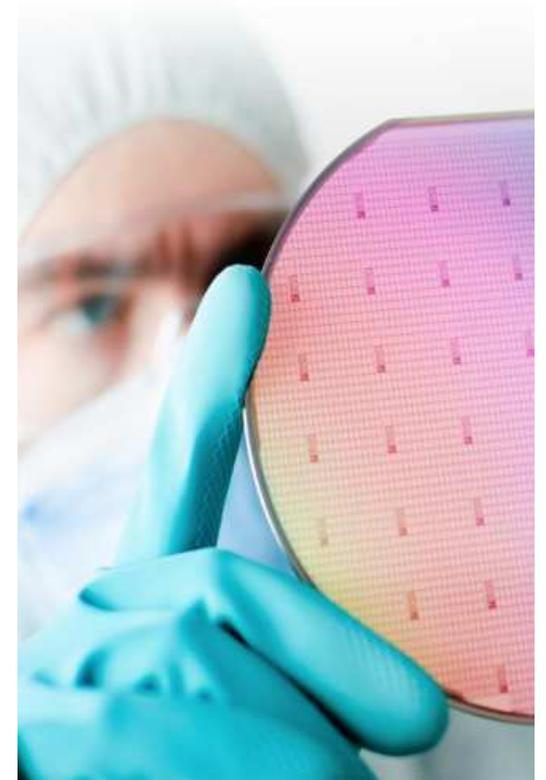
We count several top 10 Semiconductor Manufacturers as our clients.

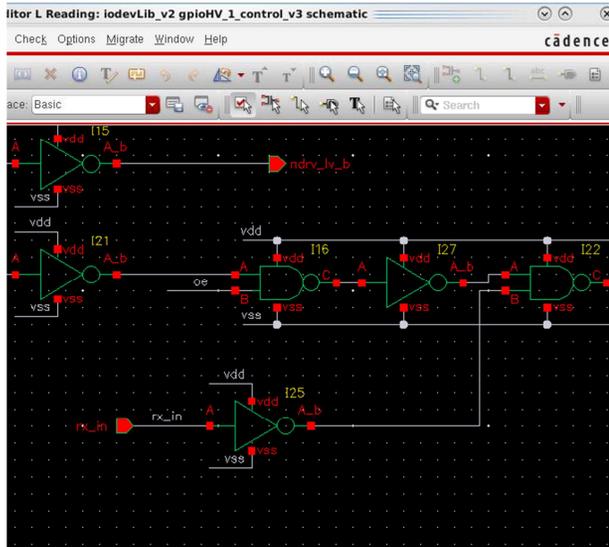
Learn how we can help you!

CUSTOM ESD AND IO SOLUTIONS



Have you considered
Custom IO?





"I was delighted by your commitment to ensure the IO Lib was successful. You can count me in as one of your happy customer. Thus far from the two projects, we are pleased with the services. Will certainly look forward to working with you again."

- Francis H.
(65nm IO Lib customer)

Why Custom IO's?

IO's are generic, offered by every foundry and most IP providers for free. So why would anyone want to spend the time, money and effort to create unique IO's, customized for their product?

That statement alone answers itself. If a company wants a generic product with no advantages over its competitors, using the same IO as its competitors will accomplish that.

Custom IO's however offer optimal power, increased performance, reduced area, specialty features...essentially a product can have it all!

The Clearest Advantages

Area and features. Certus Semiconductor's custom IO Libraries on average deliver equivalent features and performance, as compared to foundry IO's, in generally 30-50% less area. We accomplish this by stripping away all the unnecessary features, as well as using proprietary ESD architectures, delivering better ESD performance in a smaller footprint.

Besides area savings, the most common request when considering custom IO are features. These can include but are not limited to: Multi-Voltage IO, High Voltage (>15V) switches and ESD in Low Voltage CMOS processes, TSV IO's, Low Cap RF and >28Gbit ESD. Do you have a feature or option you need that doesn't exist...ask us, we can help make it happen!

ESD Solutions

Custom IO are not as easy to find, for one critical reason, ESD. Providing consistent ESD performance is challenging for many companies with new IO designs. Certus however was founded by ESD consultants. Our ESD/EOS expertise is unparalleled in the Industry. Not only do we address standard ESD such as HBM, CDM and MM, but we also address on-chip solutions for such standards as IEC 61000-4-2 System Level ESD and Cable Discharge Events (CBE). Many of our standard IO designs exceed 2kV IEC for example. Certus also specializes in low cap ESD as well as EOS system protection.

We're different!

Our working model is not one of hands off IP provider. We work closely with our clients, providing flexible, fast time to market solutions.

From the very beginning of product planning, we work with clients in planning and defining what IO features and goals are optimal for the product and customer. We help integrate the IO; we help with tape-outs, package design, top-level floor-planning. Power distribution, signal integrity and noise are areas where we also engage and support our customers understanding.

...and why do we help with all this?

Simple, it ensures that we deliver the best IO product our customers can find...and that they are successful! When our customers are successful, we are successful!

Contact Us

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