



There are many valid reasons to develop Application Specific Integrated Circuits (ASICs):

- Chip companies themselves in creating “off-the-shelf” ICs as building blocks for companies to build various electronic boards and products.
- When huge product volumes warrant a high level of integration and low cost of components (cellphones, laptops, fitbits, wrist watches, etc.)
- When space for electronics is extremely limited.
- When massive computation, processing and storage is required.

In most cases however, the multimillion-dollar cost to develop an ASIC cannot be justified by forecasted sales volumes in combination with the intended product sales price. What is more, an ASIC’s absolutely fixed function and features are literally cast into the die. Any advancements, new standards requirements, bug fixes, optimizations require yet again an expensive redo of the die followed by another high-volume part fabrication.

AimValley has experience in helping large network equipment makers create ASICs, for example the I.C.s that power tens of millions VSDL/G.fast and PON broadband services.

It is that experience we leverage!

We provide a solution for companies that desire the attributes of an ASIC for which the intended sales volume or required flexibility does not justify the tremendous investment in an ASIC. Our solution is to use the rigorous design process normally used to develop ASICs to develop an FPGA. Although this will not generally solve pressures for ultra-low component costs, it does deliver high performance, large scale integration, small footprint, power efficiency, and incredibly high reliability. One other benefit is that if the functionality and features can be modified, enhanced and updated with a new release, provided the same rigor in verification is followed.

This is a perfect solution when volumes are between 1 000 and 100 000 units.

Why AimValley?

AimValley is a reliable provider of Edge technology since 2003, delivering solutions for:

- High speed data processing applications
- Complex FPGA-based accelerated systems
- High speed, low power hardware equipment
- Robust embedded software
- Early adopter of Acceleration Technology

Joint Development

Achieving your goals requires you to constantly adapt to new technologies. Based on your requirements, we design solutions and ways to jointly implement them.

Tailor-made Solutions

We collaborate with you to deliver your desired solution (complete product or only part of the development).

Fast-Track Development

Taking advantage of re-usable designs and IP enables us to develop your solution on a fast track.

Innovative Solutions

AimValley is continuously looking for alternative and optimized ways of designing high-tech products. We have an extensive patent library.

Phased Approach

Our design process is structured to successfully take your product from concept to production and flexible enough to allow you to leverage any of our services on a standalone basis.

Certification

AimValley is experienced in certifying products or systems, such as EMC/ESD, CB and CE.

Life Cycle Management

We offer life cycle management for the design and/or the product. This includes maintenance and component obsolescence management.

Quality Focus

- Outstanding track record of on-time delivery
- Best in Class Designs – Time, Budget & Quality
- ISO9001, ISO140001, Ecovadis Platinum CSR