



The Hardware Development team covers the entire range of skills and expertise to realize electronic products. The team is specialized in high-speed analog and digital circuits, backplane design and complex embedded controllers with high availability.

At AimValley our electronics and mechanical designers are familiar with what it takes to create a product that is destined to be sold globally. We maintain partnerships and working relationships with the major integrated circuit providers with focus on High-Speed Ethernet and connectivity.

Our experienced designers have an excellent track record of ensuring that the final product will meet the specific requirements and that the design will have a high probability to pass all compliance, environmental, and electrical testing and certifications.

A growing concern of the industry is the sustainability of the hardware. Will the selected components be readily available? Can the product be upgraded to meet evolving specifications? Does the product meet all criteria such as WEEE, RHoS, and is free from conflict minerals. AimValley's design team is constantly ensuring your best interest is of the utmost importance. Read our full report on [AimValley's Corporate Social Responsibility](#).

Contact us to learn what the AimValley experts can do to deliver your next product or help you augment, modify or “save” your aging products from obsolescence.

Hardware Expertise

- Analog and Digital circuit design up to GHz domain
- High Speed digital transmission and controlled impedance design
- Timing and Synchronization functionality
- Optical and electrical interface design from 2Mb/s up to 800 Gb/s
- FPGA design enabling fast and flexible adaptation to various applications
- Single board and embedded CPU system designs based on NXP processors & ARM CPUs
- Large system backplanes with multi-layer mixed signal technology and complex stack-up
- Mechanical Housing, with optimized electro-magnetic, environmental & thermal designs
- Compliance testing and certification
- [Factory Introduction](#)

Specialisms

- High Speed Digital Design
- High Speed Backplanes
- Embedded Processing
- Product Operating temperatures range from -40°C up/top 85°C
- Chip on Board application; wire bonding, flip chip



Why AimValley?

Since 2003 AimValley is a reliable provider of connectivity 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

Based on your requirements, we design solutions and ways to jointly implement them (complete products 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