

### Customer

A key manufacturer of test and measurement equipment in the Ethernet industry.



### Customer Objectives

- > Shortest time-to-market of a card developed with the latest FPGA technology.
- > Thermal optimization of the module.
- > Enabling maximum power density in PCIe format.

### AimValley Solution

- > Design, Development & Production of a board with the use of the most advanced FPGAs.
- > A team of 4 developers, consisting of hardware, software and FPGA expertise, solved the challenges of dealing with super high currents (72Amp@0.85V) and at the same time designing for ultra sensitive 56G/s signals.

### Key Technologies

- > [400G-800G Transmission](#)
- > [56G PAM4 versus NRZ](#)
- > [Power Supplies](#)

## Results and Added Value



### Efficient

Printed Circuit Board developed in less than 4 months.



### Successful

Delivered Printed Circuit Board first-time-right.



### Partnership

Development in close collaboration, enabling incorporation of changed priorities.



### Innovation

3D simulations to ensure best possible signal quality. Flow simulations for thermal analysis.