

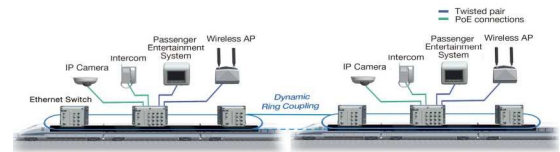
### Customer

Leading customer in transportation engineering, supplying the connection technology for transmitting data, signals and power in railway applications.



### AimValley Solution

- > Complete design and development from idea to product.
- > Broadcom based switch development.
- > Future proof architecture: 68 hardware variants based on 3 base designs.
- > Development fully based on AimValley Software IP ([AimOS-Ethernet](#)) – carrier grade, field proven software stack.
- > Managed the challenging thermal aspects based on our broad thermal experience and fan-less designs.



### Customer Objectives

- > Development of a portfolio of industrial Ethernet switches for transportation (railway), automation (machinery & robotics).
- > Compact design for harsh environment; installation where space is restricted and fan-less design (extended industrial temperature range) is required.
- > 120 W Power over Ethernet (PoE) from internal power supply.

### Key Technologies

- > Power over Ethernet (PoE) & PoE+ standard.
- > AimOS-Ethernet.
- > Broadcom Switch Technology.
- > Fan-less Design.
- > Precision Time Protocol IEEE 1588v2.
- > Mechanical Packaging.

## Results and Added Value

#### 📍 Efficient

Re-usability of IP (AimOS-Ethernet) and proven developed switch experience reduced time-to-market and development costs with 35%



#### Partnership

Architecture and development in close collaboration with the customer.

#### ★ Successful

A fully flexible product-line developed on a turn-key basis, including manufacturing.



#### Innovation

Modular design for harsh environments (extended temperature range in combination with fan-less design).