

DRIVING END-TO-END IP DEVELOPMENT THROUGH TURNKEY DESIGN EXPERTISE



THE CLIENT

Kalray is a fabless semiconductor company, leader in a new generation of processors, specialized in intelligent data processing for both at the “Cloud” and “Edge” levels.

THE CHALLENGE

Kalray was developing a new generation of parallel processing chips involving high technological challenges and requiring a high level of expertise to succeed in their projects.

As a result, they were looking for a trusted partner to help design, verify and synthesize a **new IP for Ethernet Quality-of-Service processing**.

Technical support needs:

- Collaborate on design specifications, refine the quality-of-service algorithms and architect a solution.
- A turnkey IP for advanced QoS real-time management of 100Gb/s Ethernet traffic.
- Quick ramp up on the design and verification strategy

Project management needs:

- Management of both methodology support and technical development

OUR SOLUTION

Aedvices handled all aspects of the project, at our premises by:

- Removing all ambiguities from the specifications to avoid any misinterpretation
- Adapting our workflows to the client organization and methodology: design and verification rules, requirement-based engineering.
- Developing the IP from scratch: Design + Verification + Synthesis
- Using an Agile-like project management

RESULTS ACHIEVED

- Delivery of a **complete IP** integrated directly into the customer’s whole Design
- Delivery of the project **on time and budget**
- **Excellent communication** with Kalray team through regular progress updates

