

# Corporate Brochure



**RF Over Fiber - 2.5GHz - 6.0GHz Low Frequency RFoF**



**RF Over Fiber Mini Series (8GHz - 18GHz)**



**RF Over Fiber MiniQ Series (18GHz - 40GHz)**



**Optical Delay Line (Up To 40GHz)**

## Who we are

RFOptic is a leading provider and-vendor of RF over Fiber (RFoF) and Optical Delay Line (ODL) solutions as well as embedded RF Optical solutions for OEM customers. For the last 20 years, our team of industry veterans has been developing, designing and integrating superior quality technology for a wide range of solutions. Our customers hail from a wide range of industries, such as Telecommunications, Aerospace & Defense, Broadcasting and Infrastructure.

## What we offer

We offer our customers RFoF links, multi-link / multi-channel RFoF systems and **subsystems** which allows us to satisfy requirements that include diverse enclosures (indoor and outdoor) supporting multiple RFoF links with monitoring and management capabilities. Our RF over Fiber solutions offer the best cost performance ratio, featuring noise figure of 5dB and gain link of around 40dB.

Our programmable **low frequency RF over Fiber units** (0.5MHz to 6GHz) are based on direct modulation.

With our **MiniQ High SFDR series** indirect modulation product family, we support applications from 10MHz to 40GHz with low noise and high spurious-free dynamic range (SFDR).

Our **Optical Delay Line solutions** are available as “fixed” ODL with up to 8 predefined time delay values in a single unit, or as “variable” supporting up to 255 delay states. All Optical Delay Lines feature delays of up to 250  $\mu$ sec (>250  $\mu$ sec upon request) while maintaining excellent performance.

You can add RFoF functionality with our compact **OEM board** for your high volume requests.

Our unique **software** communicates with our programmable RFoF units, offering you unparalleled flexibility for you RFoF or ODL deployments.



In addition we know how to develop integrate and deliver the most cost-effective and state-of-the-art product development of mixed microwave and optical solutions to companies worldwide. Our extensive experience and know-how enable us to overcome the technological challenges which our customers face, from original concept up to production.

## Benefits

- Wide range of off-the-shelf products at IF, VHF, UH, L, S, C, X and Ku bands
- Customized products with off-the-shelf advantages
- Highly integrated plug & play RFoF and ODL solutions
- High-performance products at affordable prices
- Short delivery lead time
- Excellent customer service and rapid response time
- Worldwide network of distributors and partners
- Enabling superior performances by optimizing RF and Optical design.

## Tailor-made for every budget

At RFOptic, we strive to make our cutting-edge technology accessible to as many customers as possible. We understand that in some cases, projects are very specific, while in other cases they are not. That is why we offer our high quality products, such as our high-quality Radio over Fiber (RFoF or ODL) products) for an affordable price, which allows our customers to experience the highest quality product while staying on budget. It is our mission to exceed expectations at every level.

## Customized solution procedure

Our procedure for customized solution consists of 5 steps from request to implementation:

1. Getting the requirements from the customer
2. Building the concept
3. Defining the specifications and setting the budget
4. Building a proof of concept for approval
5. Going into serial production

## Core competences

- Electro-RF-optical components and chip design
- Extensive know-how of RF and optical optimized design
- Electro-RF-optical modules & systems design
- Design for manufacturing and miniaturization
- Technical program management

## Applications

- Remote antenna cable replacement
- Broadcast audio/video applications
- Satellite communication signals (Satcom)
- Programmable GPS over Fiber
- RADAR e.g., radar calibration, MTI
- Defense, e.g., aerospace, defense & homeland security, EW systems
- Broadband applications
- 5G and 6G secure communications