

## RFOptic Newsletter January 2022

Welcome to our first newsletter of 2022. Looking back at 2021, it has been a busy year for RFOptic, with record numbers in sales and onboarding new customers. Our solutions, especially our 5G solutions, keep gaining more and more recognition in the market, not in the least due to the efforts of our distributors. During 2021, we received our first orders from a few strategic customers, Fortune 500 companies, for 5G applications. In the US, we expanded our presence with our Optical Day Line solutions. We also closed a deal with a Global Satellite Company for marine system integration.

Thanks to the efforts and commitment of our R&D team, we were able to launch our 6GHz sub-systems and our Altimeter Optical Delay Line (ALT ODL), and to equip our high-frequency solutions with gain matching for maximum performance. We also launched our integrated remote monitoring & control (M&C) system. This upgraded software can manage, monitor, and control RFOptic's RFoF converters of all types as well as ODLs.

We were able to maintain our impressive growth trend and expect to keep growing similarly in 2022. We hired additional staff to meet the growing demands of our customers, and we expect to onboard more customers and add employees in the coming year.

Enjoy your read,  
Your RFOptic Team

### 5G activities



After a long sales cycle, we were able to close a 5G contract with a multinational networking and telecommunications company. This success follows our previous deployments at leading mobile companies and Fortune 500 companies. Our customers are using our equipment for their 5G lab infrastructure since our optical solutions have proved again and again that they meet their bandwidth and distance requirements.

As mentioned in previous newsletters, RFOptic has been investing major efforts to address the evolving 5G and 6G markets. Given that RF cables and RF switches are known to perform poorly at high 5G frequency bands, engineers are looking for alternative optical fiber-based solutions, especially for 5G lab testing. Service providers and mobile infrastructure manufacturers need to test the performance of their handsets and other 5G devices using various types of base stations (BTS). Furthermore, RFOptic is targeting low-cost solutions above 6GHz and up to 10GHz, which will be required as 5G is extended, and 6G comes online.

## Looking back at 2021

During 2021, we have onboarded major customers with our proven 5G offerings to meet the growing demand to support their 5G deployments. Our 5G solutions are used for remote antennas, base stations, and coax cables replacement in test facilities. In addition, we also identified the need for 5G as a DAS extension solution when the cable solution cannot meet the required system parameters.



RFOptic's solutions extend up to 40 GHz and beyond. Apart from telecom service providers, our solutions are currently used by defense contractors, aerospace companies, and national labs. We are also an OEM design partner for a Fortune 500 company to accelerate their 5G deployments. Based on our R&D and field experience, we formulate new concepts and designs for complex 5G deployments.

To learn more, visit our [5G webpage](#) or download the [white paper](#) (no opt-in needed).

In 2021, we also updated our product portfolio, which currently consists of:

- Low-frequency programmable unidirectional and bi-directional products up to 6GHz.
- 3GHz - 6GHz unidirectional and bidirectional multi-channel sub-systems.
- High-frequency solutions starting from DC up to 40GHz and higher.
- Our recently launched 6GHz multi-channel phase coherent sub-system for achieving better than  $\pm 6^\circ$  of full band phase deviation.
- Our ODL products cover DC to L, S, C, X, Ku, K, and Ka up to 40GHz bands using progressive design with up to 1000us of cumulative delay and 12 or more main delay line segments creating 4096 or more delay states.
- Our new Altimeter Optical Delay Line ([ALT ODL](#)), an ODL operating up to 6GHz based on the very same ODL technology but with the special features suitable for Altimeter testing such as calibrated delay in feet or meters.

## Looking forward to 2022



It is important to note that due to RFOptic's production and purchase policy, we were able to meet our commitments vis-à-vis our customers despite the ongoing pandemic, and will continue to do so in 2022. We expect to expand our presence in the 5G market, also as an OEM, by providing low-cost solutions above 6GHz and up to 10GHz that will be required for 5G and 6G. RFOptic provides end-to-end solutions at any frequency, which can be controlled with its [remote management and monitoring software](#).

We hope that you enjoyed this newsletter. We invite you to submit your comments and suggestions,

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