



RFOptic Newsletter December 2020

Welcome to our last newsletter of 2020. At the end of a turbulent year, we want to update you about our latest developments and achievements during the last few months. Looking back at 2020, we are proud that we were not only able to keep our personnel, we even added new employees to keep up with the growth of the demand for our solutions despite the current pandemic.

RFOptic was able to keep to keep to scheduled deliveries and deliver on time with at most a slight delay. We also closed several contracts for large projects with major corporations in Europe, the USA, India, and Israel including low and high-frequency RFoF and ODL projects. Furthermore, these projects included a sub-system with a combination of low and high-frequency links, and others addressing requirements in 5G, remote antenna, and EW applications.

During 2020, RFOptic started a rollout of our proven 5G and EW solutions worldwide, a new design and extended functionality of our ODL product line, and the serial production of our HSFDR solutions.

This year, various additional sales and marketing channels opened up in new territories, allowing us to have access to major enterprises and government agencies in sectors such as defense, telecom, broadcast, remote antenna, and radio telescope.

The rollout of 5G worldwide has accelerated in 2020. At RFOptic, we have been focusing on 5G for some time now, with proven solutions that have been deployed worldwide. As always, our R&D department has also been working hard, and has finalized the new design of our ODL and our local and remote management & monitoring software. Other highlights include our serial production of RFoF HFDR and more 5G deployments. We also published two new white papers explaining why an optical solution using RF over Fiber is the preferred solution for 5G or for multi-antenna array EW applications. Both white paper were written by Dr. Avner Sharon & Dr. David Gabbay of RFOptic, and can be downloaded [here](#).

RFOptic and COVID-19

We were able to keep our operations going during the current pandemic, and even closed deals with several major companies in Europe, the USA, India, and Israel for 3 of our product lines and a customized subsystem with a mix of low and high frequency. No RFOptic employee was furloughed or let go; we even hired a new employee during H2 and are recruiting additional staff. Our R&D department did an amazing job during H2, resulting in the launch of a new ODL design, the serial production of RFoF HFDR, supporting more 5G deployments, and making our local and remote management & monitoring software market-ready.

RFOptic and 5G

The rollout of 5G worldwide has accelerated in 2020. As RFOptic, we have been focusing on 5G for some time now, with proven solutions that have been deployed worldwide. Our 5G Optical Solutions meet the growing demand of our customers to support their 5G deployments and development. These solutions are especially effective in those cases where coax needs to be replaced with fiber for testing or remote base station antennas. RFOptic solutions compare favorably with CPRI, and provide excellent EVM for 5G tower mounted antennas. They also offer wider bandwidths for 5G mm-Wave deployments (30GHz and above HDFSR links). Our ODL are also used for 5G solutions latency tolerance measurements.



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

New! RFOptic has launched its new ODL design



We have designed a new standard enclosure for our ODL solutions. This new design features an informative display with keypad that provides clear readout of the ODL state and allows rapid manual adjustments. The manual controls are augmented with a direct software control of all available features of the ODL. This software control is available through USB interface with our common RFOptic Configuration tool, an app which is dedicated to provide GUI to all RFOptic products including RFoF programmable links, RFoF HF series links and ODL systems. The

new Optical Delay Line design supports a large set of features and custom options including: Fixed and progressive delay configurations with 256 states or more with bandwidth up to 40GHz, and high-speed delay switching under 100us. Future remote management ODL and many other features including RF and Optical routing, Amplification and Attenuation are available upon request.

To learn more, click [here](#).

New! RFOptic has launched its integrated local and remote management & monitoring software

RFOptic's Management and Monitoring Systems software can manage, monitor, and control RFoF converters of all types as well as ODLs locally and remotely. These control and monitor capabilities reduce the daily maintenance expense, allowing maintenance personnel to perform diagnostic tests and calibration in the field without special test equipment, and to locate faults and problems in the optical and RF domains. All management systems are user-friendly, intuitive, and easy to operate. Additional information can be found in the help files of the management software.

RFOptic's Control and Management Systems software has two levels: local management and remote management. Both enable the change of operating parameters and provide status details for the RFoF converter modules.

For more information, visit our [webpage](#) or download the [datasheet](#). For the infographic, click [here](#).

THE POWER OF RFOPTIC'S MANAGEMENT & MONITORING SYSTEMS



LOCAL MANAGEMENT & MONITORING

- Troubleshooting by recording the log file
- Reading part number serial number, optical power RF power etc)
- Changing Tx and Rx attenuation
- LNA On and Off
- Link test
- Temperature , laser current, etc.



REMOTE MANAGEMENT & MONITORING

- Via inter-Facility Link (IFL) over the same bundle of fibers connecting remote/local sites
- Via SNMP/HTML/REST for remote monitoring
- Used optical and RF sensors for remote management and monitoring
- Ideal for testing and remote antenna applications

OPTICAL AND RF MONITORING Saves maintenance and optics OPEX

Want to learn more?

Visit our [Management & Monitoring Software page](#)
or contact us at info@rfoptic.com

RFOptic expanded its sales and marketing activities worldwide

During 2020, RFOptic was able to win bids and execute trials with major companies and government agencies. We increased our US sales by 50%. One global telco operator is evaluating our 5G solution for its 5G testing. Another global telecommunications company purchased RFOptic's Links to support its remote base station. Also, a major manufacturer of communications equipment is testing our DAS solution for its distributed antenna systems. We are

presently concluding a deal with a global provider of mission-critical communication solutions for land, sea, air, space applications as an OEM for its maritime platform for satellite applications. Furthermore, a major player in the defense sector placed several orders for 40GHz ODLs. Additionally, an aerospace and defense conglomerate has entered into a contract with us for replacing their existing competitor's solution with an RFOptic solution. Last but not least, we were awarded a radio telescope tender in Germany.



Let us to wish you all a healthy, happy and successful 2021



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