



## RFOptic Newsletter June 2020

Welcome to our latest newsletter. With it, we want to update you on the latest developments during the last few months. We were able to keep our operations going during the current pandemic. No RFOptic employee was furloughed or let go and kept on working from home (WFH). Our R&D department did an amazing job during H1, resulting in the launch of two new offerings: phase-matched RFoF up to 6GHz (up to 20 GHz in the near future) and high-frequency links with an ultra-low spurious level of <math><-95\text{dBm}</math>. Together with Accutronics, we won a tender in South Africa for radio telescope links of 18GHz to replace coax. Last but not least, we are proud to announce that a football stadium in the US deployed our RFoF solution to replace coax. Enjoy your read, your RFOptic team.

## RFOptic and COVID-19

As RFOptic, we have a contingency plan in place as part of our corporate strategy. This helped us to ensure our supply chain, which enabled us to ship our RFoF 2.5GHz 3GHz 4 GHz and 6GHz within 7-10 days. Our standard and HSFDR RFoF solutions had a lead time of less than two months, and our customized RFoF and ODL solutions between 2.5 months and to 3.5 months.



For more information, click [here](#)

## New! RFOptic has launched its innovative controllable phased-matched 6GHz RFoF modules

RFOptic CWDM 6.0GHz RFoF 4 link system is phase matched up to  $\pm 6^\circ$  up to 5.7 GHz. Each of the four links is comprised of a Tx unit with LNA and an Rx unit, both with variable attenuators that enable adjustment of the Noise Figure, Input P1dB, and IP3 over a wide range of values. The LNA can be activated through an RFoF software tool allowing RF input power below  $-100\text{dBm}/1\text{MHz}$  for wideband applications, with a low Noise Figure  $< 6\text{dB}$ . The RFoF link has excellent gain flatness with 0.5dB gain tracking between different links.



For special applications requiring temperature stability operation, a unique algorithm supporting 0.5 dB over 100C has been developed.

To download the brochure, click [here](#)

## New! RFOptic has launched its high-frequency links with ultra-low spurious level for RADAR and EW applications



At the request of customers, RFOptic has now launched 15GHz, 18GHz, 20GHz, 30GHz, and 40GHz RF over Fiber links that have an ultra-low spurious level of less than -95dBm.

On a technical level, achieving extremely low spurious levels is a major challenge, particularly in small and tight RFoF modules where power consumption must be kept as low as possible. Many applications can only be supported by a design that achieves low spurious levels across extremes of the RFoF link bandwidth. Applications such as Optical Delay Lines, used in many RADAR test ranges, require ultra-low spurious to test and optimize extremely sensitive systems.

Thanks to the efforts of RFOptic's R&D department, the new offering will achieve this critical parameter, which opens the market for RADAR and EW as well as other applications.

To learn more, read our [press release](#) or [contact us](#).

## RFOptic and Accutronics have won a tender for Radio Telescope Applications

The tender was issued by the South African Radio Astronomy Observatory (SARAO) for the supply of broadband 18 GHz fiber optic links, for their Hartebeesthoek Radio Astronomy Observatory ([HartRAO](#)) site to be used on their new Very Long Baseline Interferometry Global Observing System (VGOS) radio telescope.

RFOptic has already provided solutions for VGOS systems for the observatory center in Gothenburg, Sweden, with great success.

For the press release, click [here](#)



## Case study - Football Stadium

A customer was looking for coax replacement since it had to bridge a distance of more than 150 ft. between the main rack integrated in the control room and the 2nd zone RF station outside in the football stadium.

The customer chose RFOptic's multi-link 2.5GHz RFoF solution to be integrated with the rack which was set up in the truck pit / dock area using 7 strands of single-mode fiber to get the full coverage for broadcasting.



The customer was impressed with the results, especially the ability to adjust the link gain, which allows for the flexibility and the small form factor, and the low power consumption. More specifically, there are no IP addresses to manage on a network and no limit to the Radio Active Design belt packs that can be used outside.

To read the full case study, click [here](#)

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