



## Optic Newsletter - August 2018

Welcome to our fourth newsletter of this year. It has been a busy time for RFOptic, not in the least since we have been developing our new RFoF 40GHz solution suitable for the 5G cellular band of 24.5GHz to 27.5GHz. It is now commercially available.

We would like to point out that our Tx/Rx converters up to 6GHz are compatible with the existing equipment of other suppliers. We have good news for RFVenue customers; by using our RFoF solutions for their audio and video applications, they will get even better performance.

Last but not least, we would like to draw your attention to our high spurious-free dynamic range (SFDR) feature.

Enjoy your read,

Your RFOptic team.

## New! Introducing 26GHz for 5G cellular

As you might know, 5G is pushing mobile performance to a new level with ultra-high speeds and low latencies. It will allow mobile operators to meet the speed, latency, reliability and capacity requirements of 5G. Currently, 26 GHz is emerging as a preferred band since it is especially suited for LTE networks. This 3GPP band n258 has a range between 24.25 and 27.5 GHz.



As a pioneer in the RFoF industry, RFOptic is proud to announce the availability of its RFoF 26GHz solution, which is a sub band of its RFoF 40GHz product. As with all our RFoF solutions, it features high SFDR and excellent flatness. It can be hosted as a standalone, indoor solution or outdoor solution.

## RFOptic's Tx/Rx compatibility with existing equipment



Recently, we got several enquiries from customers who want to know how compatible RFOptic's transmitters and receivers are. More specifically, they want to know if our Tx or Rx units would be able to communicate with existing equipment. They wanted an RFOptic Tx to work seamlessly with their existing (third party) Rx (and vice versa). This is indeed the case.

Thanks to the flexibility of our RFoF converters up to 6GHz, compatibility is guaranteed. Overall, compatibility is especially attractive for customers with limited budgets.

For more information, about our RFoF converters up to 6GHz, click [here](#).

## RFOptic is an excellent replacement for RFVenue

RFVenue, an Ashland, MA based provider of remote antennas and RF distribution products for the broadcast industry, might leave the market.

To help RFVenue customers with their RFoF broadcast and remote antenna needs, RFOptic is offering its RFoF solutions to all RFVenue customers to help them with their audio and video applications.



Our RFoF solutions for the [broadcast](#) and [remote antenna](#) sectors feature a NF of 5dB which is required for the audio industry. The solutions can be purchased as a standalone or in 1 or 2 enclosures for indoor or outdoor use.

To read more, click [here](#)

## RFOptic's high SFDR



In general, a wide range of spurious-free dynamic range (SFDR) is optimal to avoid signal saturation and subsequent consequences such as adjustment of power levels and the additions of attenuators.

In case of e.g., antenna testing and radar communications system testing, high SFDR is required. RFOptic's up to 40GH

RFoF solutions provide high SFDR of minimum 105 dB/Hz.

Customers that need better NF will benefit from RFOptic's solutions with additional preamplifier. Among the current customers that are using our RFoF high frequency product line are civil and defense systems integrators, space leading companies, communications companies and more. RFOptic's RF over Fiber is a key building block in its optical delay line product line which made RFOptic a worldwide leader in this field.

For more information, contact us at [marketing@rfoptic.com](mailto:marketing@rfoptic.com)

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