

Time to **think RF**

monitor. detect. analyze.



YOUR GATEWAY TO **5G mmWave signals**

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D4000 RF Downconverter/Tuner



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Prologue with just a marketing guy



Your gateway to 5G mmWave signals is here!

Hello! I hope everyone and their families are keeping well as many countries started to slowly lift COVID-19 related restrictions.

We are very excited here at ThinkRF as we approach to the launch day of our upcoming product the D4000 RF Downconverter/Tuner.

We announced the official launch date in the last issue and we wanted to continue our conversation about the D4000 in this issue.

We are checking all the boxes in our D4000 launch plan. Recently, we hired a professional product photographer for the photo shoot. We hope you like the D4000 images used in this issue. You can download the images on our new Reseller Portal. I will send you an email with the instructions about our new

Reseller Portal this week.

As part of our launch plan, we scheduled webinars and newsletter campaigns. We are also planning to produce YouTube videos focusing on applications and product information. There will be online product training sessions for you both technical and commercial.

Please stay tuned to the next issue of the newsletter and emails from ThinkRF Team for the updates!

Please keep sending your comments and suggestions about our newsletter. We want to make this newsletter one of your own!

And always, please let us know how we can help you to be successful with the ThinkRF products.

All the best from all of us at ThinkRF
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Advantages of

D4000 RF Downconverter/Tuner

COMPACT FORM FACTOR

Smaller than a notebook! Measuring 19.3 cm x 19.3 cm x 4.1cm (7.6" x 7.6" x 1.6") and weighing less than 1 kg (2.2 lbs), the D4000 RF Downconverter/Tuner features a compact design that makes it portable, versatile, and easy to use for 5G analysis in any deployment scenario without adding significant size, weight, and power (SWaP) requirements.



OPEN PLATFORM

The D4000 works with third-party test equipment, RF Spectrum Analyzers, Software-Defined Radios and interfaces. The open platform works seamlessly with current spectrum analysis solutions through standard SCPI control over Ethernet, allowing control of the unit through the spectrum analyzer or any standard PC.



STANDARD CONFIGURATION INTERFACE

The D4000 supports open APIs for C/C++ and Python, and standard configuration protocols via SCPI commands over a Telnet connection, or configuration via spectrum analyzer software over a LAN connection.



MULTI-UNIT SYNCHRONIZATION CAPABILITY

The D4000 includes 10 MHz input and output clock references to support clock synchronization with external modules. This allows the ability to run multiple units in parallel to coordinate a compound signal monitoring system, particularly for wideband signal monitoring and capture.



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Key Features of

D4000 RF Downconverter/Tuner

WIDEBAND

The D4000 has 500 MHz of Analog Bandwidth - the widest on the market in this compact form factor. This is important because the maximum channel bandwidth for 5G is 400 MHz.

FREQUENCY COVERAGE

This covers the entire mm-Wave frequency range for 5G FR2 from 24 to 40 GHz.

PRE-SELECT FILTERING

The sophisticated RF filter technology of D4000 eliminates out-of-band signals and enables spurious mitigation. Without filtering these can result in interference within the analysis bands.

SINGLE IF OUTPUT

This makes it easier to integrate with Spectrum Analyzers or Receivers.

CALIBRATED OUTPUT

The output IF signal is accurate to within a small range of the input signal so there's no need to account for gains or losses in the signal chain and this makes integration simpler.

BUILT-IN LOCAL OSCILLATORS

This eliminates the requirement for external synthesizers.

EXTENSIBLE

The D4000 can be extended to cover lower 5G FR1 bands using other complementary ThinkRF receiver products.

Order Information

D4000 RF Downconverter/Tuner



For the orders that we received last month, the first production units will be ready to be shipped at the end of June. Since our last update, the lead time has been affected by the COVID-19. Please contact your Regional Sales Director (click on the names below) for the D4000 lead times. Place your order today!

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