Frequency-Extension Modules Address Growing Needs in Millimeter-Wave Communications, Wireless Networks, and Aerospace/Defense

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Agilent Technologies [1](Santa Clara, CA) has introduced a line of frequency-extension modules from Virginia Diodes (VDI) [2], a company that designs, manufactures, and sells millimeter-wave and terahertz devices, components, and systems, for its signal generators and analyzers.

Covering millimeter frequencies up to 1.1 THz, the VDI modules extend the reach of Agilent's signal generators and analyzers to address growing needs in early next-generation wireless research, sometimes referred to as 5G. The VDI modules are also ideal for working with millimeter-wave communication backhaul systems and emerging wireless standards such as IEEE 802.11ad, as well as a range of aerospace/defense applications.

As applications move to higher frequencies to support increased modulation bandwidth and seek out an uncrowded spectrum, measurement challenges increase dramatically. Agilent's signal generators and analyzers, coupled with the new extender modules from VDI, address these challenges by enabling designers to accurately generate and analyze complex millimeter-wave signals.

The new VDI modules offer the following features:

- High performance for excellent measurement results.
- High output power.
- Reduced conversion loss and increased sensitivity.
- 2 modes of operation: standard external mixer and wideband block downconverter.

For more information please visit www.agilent.com [1]

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