

## Keysight's R&D Efforts in High-Speed Digital Technology Helps Accelerate Industry Adoption of USB4™ Standard

Commitment to accuracy, high signal fidelity and performance supports global adoption of USB digital connectivity standard

SANTA ROSA, Calif., December 12, 2019 – Keysight Technologies, Inc. (NYSE: KEYS), a leading technology company that helps enterprises, service providers and governments accelerate innovation to connect and secure the world, announced that the company's early research and development in high-speed digital technology will enable the 5G and IoT device ecosystems to accelerate adoption of the recently released USB4™ specification.

Keysight is committed to developing solutions that deliver accuracy, high signal fidelity and performance. As a result, the company was active in the timely publication of the next-generation USB4 specification by the [USB Implementers Forum](#) (USB-IF). A wide range of products, including smartphones, laptops, desktop computers, tablets, and digital cameras, will rely on this next-generation high-speed digital standard. USB4, a plug and play interface for inter-digital communication, is based on the [Thunderbolt™](#) protocol specification and offers significant advantages in bandwidth, power and data delivery.

"USB-IF establishes close industry collaborations with its member companies, such as Keysight, that support the delivery of high-performance USB solutions, while ensuring their reliability, ease-of-use and quality," said Jeff Ravencraft, president and COO of USB-IF. "Keysight's support will help facilitate the adoption of the USB4 standard and accelerate the market introduction of certified USB4 products."

Close industry collaboration and development of solutions for design characterization and - validation for Thunderbolt™ have enabled Keysight to better serve an ecosystem built around reversible and backward compatible USB Type-C® connectors. This ecosystem, consisting of silicon vendors and system integrators, will likely expand to address a growing digital device market with applications such as high-resolution displays and higher-fidelity virtual reality devices, which will also benefit from adopting the USB4 standard.

"Keysight's commitment to supporting an ecosystem based on the USB4 specification helps drive the adoption of the ubiquitous USB digital connectivity standard," said Scott Bryden, vice president at Keysight Technologies. "By offering cost-effective test and measurement solutions that accelerate the development, implementation and deployment of new USB4 compatible devices, Keysight is strengthening a growing industry designed to enhance customer experiences."

To help boost the adoption of the USB4 standard, Keysight offers a comprehensive portfolio of high-speed digital instrumentation including [Keysight's UXR real-time oscilloscope](#), which offers accuracy in waveform representation across a wide frequency range; [Keysight's Vector Network Analyzers](#), which use a generated signal to analyze a network or device to deliver the accuracy needed to perform both linear and nonlinear device characterization; and Keysight's highly integrated [Bit Error Ratio Testers](#) (BERTs), which identify errors introduced into the system when data is received, a critical capability in physical layer characterization, validation and compliance testing.

### About Keysight Technologies

Keysight Technologies, Inc. (NYSE: KEYS) is a leading technology company that helps enterprises, service providers and governments accelerate innovation to connect and secure the world. Keysight's solutions optimize networks and bring electronic products to market faster and at a lower cost with offerings from design simulation, to prototype validation, to manufacturing test, to optimization in networks and cloud environments. Customers span the worldwide communications ecosystem, aerospace and defense, automotive, energy, semiconductor and general electronics end markets. Keysight generated revenues of \$4.3B in fiscal year 2019. More information is available at [www.keysight.com](http://www.keysight.com).

# # #

USB4™, USB Type-C® and USB-C® are trademarks of USB Implementers Forum.

Additional information about Keysight Technologies is available in the newsroom at <https://www.keysight.com/go/news> and on [Facebook](#), [LinkedIn](#), [Twitter](#) and [YouTube](#).

#### KEYSIGHT TECHNOLOGIES CONTACTS:

Geri Lynne LaCombe, Americas/Europe  
+1 303 662 4748  
[geri\\_lacombe@keysight.com](mailto:geri_lacombe@keysight.com)

Fusako Dohi, Asia  
+81 42 660-2162  
[fusako\\_dohi@keysight.com](mailto:fusako_dohi@keysight.com)

NR19156 (USB4)