Anritsu Signal Quality Analyzer-R MP1900A Supports USB4™ Receiver Tests

June 29, 2020 – Anritsu Corporation President Hirokazu Hamada announces the USB4™ receiver test solution using the company's Signal Quality Analyzer-R MP1900A in combination with automation software from Granite River Labs or Teledyne LeCroy to control a connected oscilloscope and implement tests meeting the latest USB4 standards.

The spread of next-generation 5G mobile communications and Internet of Things (IoT) devices is driving development of various new communications and IoT services that are dramatically increasing data volumes. To increase the speed of interfaces handling these large video and data files, smartphones, tablets, and other digital devices are adopting USB Type-C® connectors. The USB Type-C connector supports 20-Gbit/s performance defined by the USB 3.2 specification, which can now be extended to 40-Gbit/s over a USB Type-C connector by implementing the USB4™ specification.

Due to the 40-Gbit/s speed of USB4, the electrical test places heavy emphasis on the Tr/Tf and intrinsic jitter performance of the test signal source because measurement-system noise and jitter cannot be ignored. Additionally, similar to previous USB tests, the test is performed by calibrating the test signal according to the minimum input performance defined by the receiver standards. This assures accurate measurement of device receiver sensitivity. Automation of the BERT and oscilloscope combination is necessary to minimize the workload of signal calibration and optimize test reproducibility.

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

[Outline of MP1900A Test Solution]
The Signal Quality Analyzer-R MP1900A is a high-performance BERT supporting USB tests, as well as receiver tests of high-speed computing and data communications interfaces, such as PCI Express, Thunderbolt, and 400 GbE/800 GbE. Its high-quality data output performance (12-ps Tr/Tf, and 115-fs rms Intrinsic Jitter) helps assure more accurate measurement of high-speed USB performance as required by the USB4 receiver test. In addition, combination with Granite River Labs GRL-USB4-RXA or Teledyne LeCroy QPHY-USB4-TX-RX (USB4/TBT3 transmitter and receiver) automation software for automating signal calibration and testing helps high-reproducibility measurement of USB4 interfaces according to the latest standards while also reducing test workload.

To learn more, download a USB4 test solution leaflet.

About Granite River Labs

Granite River Labs (GRL) provides end-to-end Engineering Services and Test Solutions to help hardware engineers adopt high-speed interfaces. A trusted partner of small up-and-coming hardware developers to some of the largest companies in the world, Granite River Labs combines recognized industry experts, high-performance test equipment, and automated test solutions. For more information, visit Granite River Labs' website - https://graniteriverlabs.com

About Teledyne LeCroy

Teledyne LeCroy Inc. is a leading manufacturer of advanced oscilloscopes, protocol analyzers, and other test instruments that verify performance, validate compliance, and debug complex electronic systems quickly and thoroughly. Since its founding in 1964, the Company has focused on incorporating powerful tools into innovative products that enhance "Time-to-Insight". Faster time-to-insight enables users to rapidly find and fix defects in complex electronic systems, dramatically improving time-to-market for a wide variety of applications and end markets. Teledyne LeCroy is based in Chestnut Ridge, N.Y. For more information, visit Teledyne LeCroy's website - https://teledynelecroy.com, https://teledynelecroy.com/usb-c.

About Anritsu

Anritsu has a 120-year history in building revolutionary, world-beating communications and measurement solutions. Based on the company's 2020VISION business plan, Anritsu partners with customers to develop wireless, optical, microwave/RF, and digital solutions supporting R&D, manufacturing, installation and maintenance applications as well as multifaceted service solutions for network monitoring and optimization. Furthermore, as a developer of leading-edge solutions, Anritsu manufactures precision microwave/RF components, optical devices, high-speed electronics parts, etc., for communications products and systems, targeting not only 5G, M2M, and IoT, but also new and existing wired and wireless markets. It employs 4000 people in more than 90 countries as a worldwide business.

To learn more visit www.anritsu.com and follow Anritsu on Facebook, LinkedIn, Twitter, and YouTube.

Anritsu Contact:
Kim Collins
Director, Americas Marketing
Kim.Collins(ATMARK)anritsu.com
972.761.4625

Agency Contact:
Patrick Brightman
3E Public Relations
pbrightman(ATMARK)3epr.com
973.263.5475