

## **Tektronix introduces PCI Express® 5.0 transceiver and reference clock solution**

**Collaboration with Anritsu enables industry leading receiver verification, complementing a world-class transmitter and reference clock test suite**

BEAVERTON, Ore., Feb. 25, 2021 /[PRNewswire](#)/ -- [Tektronix, Inc.](#), a leading global provider of test and measurement solutions, in collaboration with [Anritsu](#), introduced today a new PCI EXPRESS® 5.0 transceiver (Base and CEM) and reference clock solution, becoming the first company to offer early CEM fixtures for pre-compliance testing. The collaboration between Tektronix and Anritsu enables industry-leading receiver verification, complementing a world-class transmitter and reference clock test suite.

PCI EXPRESS continues to extend its industry leadership as the dominant high-speed serial computer bus by doubling bandwidth every three years and exceeding the target with the aggressive introduction of the 5.0 Base Specification (128 GB/s). This rapid development pace is expected to continue as PCI-SIG®, the standard-setting body for peripheral component I/O data transfers, announced the PCI EXPRESS 6.0 specification (256 GB/s) to be delivered in 2021 and include multi-level PAM4 signaling.

"As the first company to offer CEM testing fixtures for PCIe Gen5, we are proud to help our customers once again speed the pace of innovation, giving them a leg up on competition," says Chris Witt, Tektronix vice president and general manager.

The server/storage industry is rapidly transitioning to PCI EXPRESS 5.0 due to new requirements imposed by 400G ethernet, cloud AI and modeling (co-processors), storage capacity, and NAND-based storage. This rapid progression brings an entirely new problem set for test and measurement traditionally split into Base silicon level validation and CEM compliance testing with the PCI-SIG.

"Electronics designers today demand future-proofing to protect their innovations' longevity into tomorrow," says Takeshi Shima, senior vice president at Anritsu corporation. "Providing a solution through Gen6 gives our customers a sense of our commitment to stay with them on the cutting edge of development."

"As PCIe becomes faster and more complex with the emergence of the Gen5 standard, engineers are faced with new design challenges, shorter time-to-market windows, new standards specifications to understand and apply, and new compliance testing requirements," says David Bouse, PCI EXPRESS systems engineer at Tektronix. "It is vital to have a comprehensive test equipment and software solution in place prior to workshop certification. Our PCIe 5.0 test and debug solution can easily guide the engineer through compliance testing and debug to ensure their design meets new standards with a high degree of confidence."

The PCI EXPRESS 5.0 transceiver and reference clock solution from Tektronix was developed and continues to be aligned with the 5.0 Base specification, 5.0 CEM specification, and 5.0 test specifications.

### **Key features include:**

- PCI EXPRESS 5.0 (32 GT/s) automated Base & CEM transceiver solution running on [DPO70000SX series 70 GHz real time oscilloscope](#) and MP1900A Signal Quality Analyzer-R series (BERT) from Anritsu
- New Receiver automation software from Tektronix with highly efficient algorithms for stressed eye calibration at 32 GT/s & 16 GT/s

- State-of-the-art tool support including SigTest Phoenix with highly parallelized processing to reduce overall test time
- Multiple form factors (M.2 & U.2) and Clocking Architectures (CC, SRNS, SRIS)
- Follows real time evolution of the 5.0 Base specification with 32 GT/s uncorrelated jitter and pulse width jitter measurements implemented to optimize A/D range and minimize noise
- Addresses the increasing challenges of 100 MHz reference clock jitter and signal integrity measurements through full integration with the Silicon Labs "PCIe Clock Jitter" tool and Tektronix's DPOJET tool
- Industry first pre compliance test fixtures for PCIe 5.0 CEM testing

### Availability

The Tektronix PCI EXPRESS solution is now available worldwide for use with DPO/MSO70000SX/DX. Contact a Tektronix representative for pricing and additional details, or visit [www.tek.com/pci-express](http://www.tek.com/pci-express).

### About Anritsu

Anritsu Corporation ([www.anritsu.com](http://www.anritsu.com)) has been a provider of innovative communications solutions for more than 120 years. The company's test and measurement solutions include wireless, optical, microwave/RF and digital instruments, operations support systems and solutions that can be used during R&D, manufacturing, installation, and maintenance. Anritsu also provides precision microwave/RF components, optical devices, and high-speed devices for design into communication products and systems. With the addition of OSS monitoring solutions, it has expanded its offering to provide complete solutions for existing and next-generation wireline and wireless communication systems and service providers. Anritsu sells in over 90 countries worldwide with approximately 4,000 employees.

To learn more, visit [www.anritsu.com](http://www.anritsu.com) and follow Anritsu on [LinkedIn](#), [Twitter](#), and [YouTube](#). More information on the MP1900A Signal Quality Analyzer-R series (BERT) can be found [here](#).

### About Tektronix

Tektronix, Inc., headquartered in Beaverton, Oregon, delivers innovative, precise and easy-to-operate test, measurement and monitoring solutions that solve problems, unlock insights and drive discovery globally. Tektronix has been at the forefront of the digital age for over 70 years. More information on our products and solutions is available at [Tek.com](http://Tek.com).

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