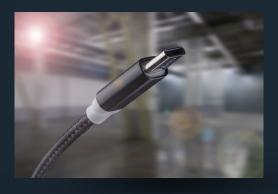
# **Tektronix**<sup>®</sup> USB4<sup>™</sup> Transmitter Compliance and Debug Solution



## Streamline the USB4 Validation Journey

USB4 compliance testing is the process of verifying that your design aligns with a variety of specifications set out by the official USB4 standard. Obtaining the USB4 certification involves testing the electrical layer, logical layer, and interoperability of your design. Without USB4 compliance testing, companies can not legally display the USB4 logo on their products.

Tektronix developed the USB4 Transmitter Solution to streamline the USB4 compliance testing journey. We designed our solution with custom test environments in mind so that designers can quickly and accurately test and debug USB4 silicon, systems, devices and hubs.

USB4<sup>™</sup>, USB Type-C<sup>®</sup> and USB-C<sup>®</sup> are trademarks of the Universal Serial Bus Implementers Forum (USB-IF).

#### Save Time and Reduce Errors

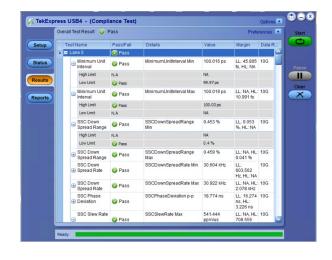


USB4 Designers face a number of challenges including increased test times, signal integrity challenges and complications related to Device Under Test (DUT) control. Tektronix's USB4 Transmitter Solution was designed to meet those challenges head-on:

- Reduced test times with automated and optimized test sequencing
- Extensive debug tools for improved root cause analysis
- Automatic DUT control to capture all compliance test patterns and reduce the need for error-prone manual interventions

#### **Full USB4 Compliance**

Tektronix's USB4 Transmitter Solution is compliant with the USB4 specification and USB4 Router Assembly Electrical Compliance Test Specification (CTS). As an approved vendor for USB compliance solutions, we provide design engineers with a reliable path to the USB4 certification they need to go to market. Our unique Signal Validation feature verifies the compliance pattern so designers can be confident in the accuracy of results.



#### **Comprehensive Automated Test Solution**



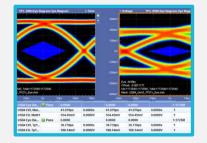
Tektronix offers a comprehensive automated solution for USB silicon, host, device, and hub testing and debugging. Tektronix's certified USB4 Transmitter Solution is designed to streamline the USB4 validation process:

- Render eye diagrams with extrapolation and analyze channel effect on signals using worst-case channel models
- In-depth debugging insight including jitter, noise, eye height/width and visualization plots
- Offline waveform analysis to collaborate with your global teams and reduce time to market



#### DPO70000SX Oscilloscopes

DPO70000SX ATI Performance Oscilloscopes deliver the industry's most accurate capture of high-speed signal behavior to verify, validate, and characterize your next generation designs



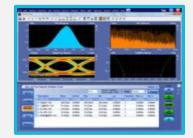
#### USB4 Tx Compliance /Debug Data Sheet

Explore this data sheet for a deeper dive into our USB4 Tx solution and how it can help you analyze and optimize complex USB4 designs with ease.



## <u>6 Series B MSO</u> Oscilloscope

Troubleshoot and validate highspeed designs with bandwidth that goes up to 10 GHz . Get accurate measurements with low noise and sample rate up to 50 GS/s . See more with 6- and 8-channel models.



#### DPOJET Analysis Package Data Sheet

Explore this data sheet to learn about DPOJET, the premier eyediagram, jitter, noise and timing analysis package available for realtime oscilloscopes.

## Serial Data Link Analysis (SDLA)

Tektronix's advanced Serial Data Link Analysis solutions enable a seamless transition between characterization, compliance, and debug tasks required to bring your product to market.



## USB4 Compliance Webinar

Watch our recent webinar on USB4 Compliance and Characterization Test Challenges.



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