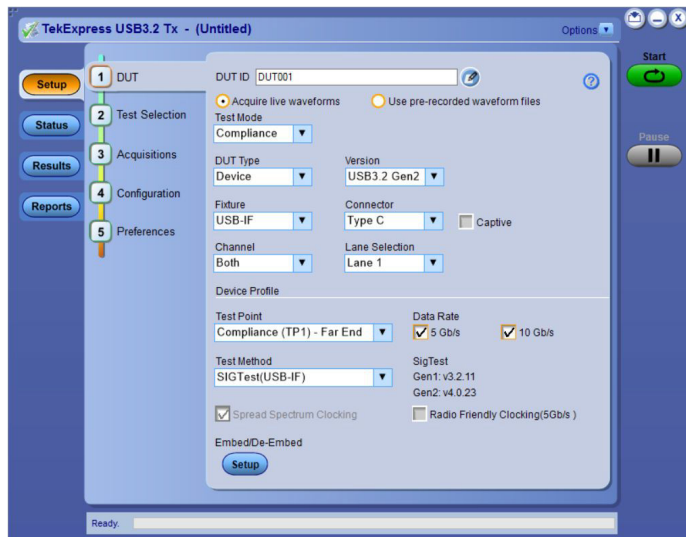


TekExpress USB 3.2 Transmitter Solutions Datasheet

Required test procedures (MOI) can be found at: www.tek.com/usb.



TekExpress automated framework configuration panel

Ordering Information

Automated TekExpress USB 3.2 (5 Gb/s and 10 Gb/s) transmitter measurements

7 Series DPO

Nomenclature	Description
DPO714AX	Tektronix DPO (Digital Phosphor Oscilloscope) 16 GHz and above, 7-SIM (optional)
7-CMUSB3	USB 3.2 (5 Gb/s and 10 Gb/s) Transmitter Normative and Informative Tests for TekExpress Automated Compliance Test Software

70K SX/DX Series oscilloscope

Nomenclature	Description
DPO/MSO70000*	Tektronix DPO or MSO (Mixed Signal Oscilloscope) Oscilloscopes – 16 GHz and above with DPOJET and SDLA64 installed
DPO/MSO70000 Opt. USBSSP-TX**	USB 3.2 (5 Gb/s and 10 Gb/s) Transmitter Normative and Informative Tests for TekExpress Automated Compliance Test Software
USBSSP-UP	Upgrade USB-TX (Supports 5G only) software to USBSSP-TX software package (Supports 5G & 10G)
DPOFL-USBSSP-TX**	Floating license upgrade for USB 3.2 (5 Gb/s and 10 Gb/s) Transmitter Normative and Informative Tests for TekExpress Automated Compliance Test Software
DPO-UP USBSSP-TX	Upgrade for USB 3.2 (5 Gb/s and 10 Gb/s) Transmitter Normative and Informative Tests for TekExpress Automated Compliance Test Software
DPOFL-USBSSP-UP	Upgrade from Floating USB TX to Floating USB SSP TX

* Requires oscilloscope with bandwidth ≥ 16 GHz for USB 3.2 Gen2 (10Gbps) and ≥ 12.5 GHz for USB 3.2 Gen1 (5Gbps).

** Requires DPOJET Jitter and Eye Analysis Tools (Opt. DJA) and ≥ 16 GHz oscilloscope and SDLA Visualizer (SDLA64).

Recommended test fixtures, cables, and tools

Item	Vendor	Quantity
USB3ET Type A and Micro B Gen1 test fixtures	USB-IF	1
USB31AET Type A & Micro B Gen2 test fixture kit	USB-IF	1
USB31CET Type C Gen1 and Gen2 test fixture	USB-IF	1
PMCABLE1M Phase Matched SMA cable set	Tektronix	2
AFG3k or AFG31k 50MHz or higher, DPO714AX internal AFG, AWG5000C, AWG5200, AWG7000C or AWG70000 (DUT State Control)	Tektronix	1

015-0572-00 BNC to SMA adapter	Tektronix	2
PWS4000 Tektronix Power Supply (optional for automatic power cycling)	Tektronix	1

Key differences between USB-TX and USBSSP-TX

Feature	USB-TX	USBSSP-TX*
Automatic measurement selections based on device type, test type, test points, and selected probes	X	X
Automatic selection of receiver CTLE filter	CTLE only	CTLE/DFE
Automatic selection of Tx channel modeling for software channel emulation	X	X
Complete coverage of USB 3.2 Normative and Informative tests	Gen1 (5 Gb/s)	Gen1 (5 Gb/s) and Gen2 (10 Gb/s)
Automatically save test reports and waveforms	X	X
Re-analyze prerecorded waveforms	X	X
Single test report for all measurements	Gen1 (5 Gb/s)	Gen1 (5 Gb/s) and Gen2 (10 Gb/s)
Automated LFPS measurements (setup files only)	X	X
Automated DUT toggle	X	X
Automated SIGTEST measurements	X	X

* USB-TX option is not a prerequisite

Automated TekExpress USB 3.2 (5 Gb/s) transmitter measurements

Nomenclature	Description
DPO/MSO70000*	Tektronix DPO (Digital Phosphor Oscilloscope) or MSO (Mixed Signal Oscilloscope) Oscilloscopes – 12.5 GHz and above with DPOJET and SDLA64 installed
DPO/MSO70000 Opt. USB-TX**	USB 3.2 (5 Gb/s) Transmitter Normative and Informative Tests for TekExpress Automated Compliance Test Software
DPOFL-USB-TX**	Floating license upgrade for USB 3.2 (5 Gb/s) Transmitter Normative and Informative Tests for TekExpress Automated Compliance Test Software
DPO-UP USB-TX**	Upgrade for USB 3.2 (5 Gb/s) Transmitter Normative and Informative Tests for TekExpress Automated Compliance Test Software
USB-TX-UP	Upgrade USB TX solution from dongle based license to software node locked license.

* Requires oscilloscope with bandwidth ≥ 16 GHz for USB 3.2 Gen2 (10Gbps) and ≥ 12.5 GHz for USB 3.2 Gen1 (5Gbps).

** Requires oscilloscope with bandwidth ≥ 12.5 GHz and DPOJET Jitter and Eye Analysis Tools (Opt. DJA).

Recommended test fixtures, cables, and tools

Item	Vendor	Quantity
USB3ET Type A & Micro B Gen1 test fixture kit	USB-IF	1
USB31CET Type C test fixture kit	USB-IF	1
PMCABLE1M Phase Matched SMA cable set	Tektronix	2
AFG3k or AFG31k 50MHz or higher, AWG5000C, AWG7000C or AWG70000 (DUT State Control)	Tektronix	1
015-0572-00 BNC to SMA adapter	Tektronix	2

Tektronix is registered to ISO 9001:2015 and ISO 14001:2015.

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