

# Zmetrix Controlled Impedance Test System ST808

6th Generation Performance ...  
within your reach



- New 20Ghz Bandwidth
- New On-Board Test Capability
- New Insertion Loss Test Capability
- New High Bandwidth Probe Line
- Improved Low Impedance Accuracy
- Designed for PCB Manufacturers



Controlled Impedance Test System Solutions

**Zmetrix, Inc.**

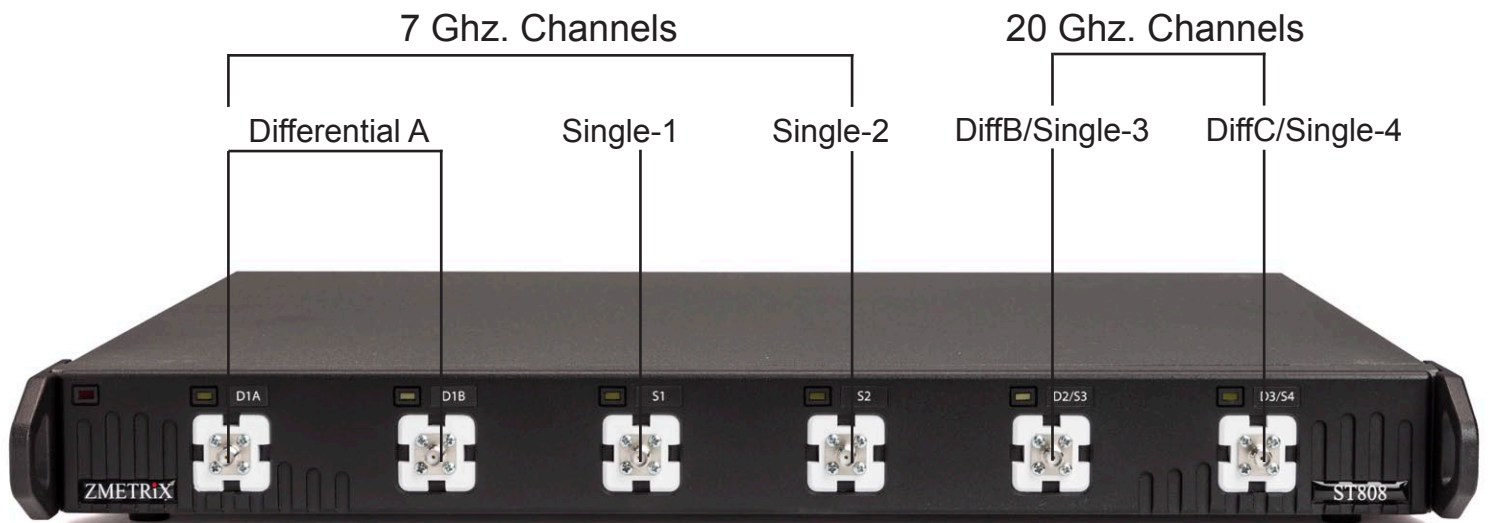
# The New ST808 Hybrid Controlled Impedance Test System

A new hybrid in TDR design, the ST808 contains not one, but two TDR's in tandem, to meet both present and future measurement needs. The best of existing coupon measurements, and the future of on-board and insertion loss measurements in one easy to use tool.

The Zmetrix ST808 Controlled Impedance test system brings new high performance TDR measurements to the production floor. In addition to an upgraded 7 Ghz TDR capability for both on-board, and traditional coupon testing, the ST808 adds two new 20 Ghz Bandwidth, ESD resistant channels, for on-board, and insertion loss testing. With a range of new, inexpensive probes for measurements using either the 7 or 20 Ghz channels, the ST808 can meet the latest in production TDR test requirements. The ST808 has a 1% measurement accuracy, calibrated to 25, 50, 75, and 100 ohm reference airlines traceable to national standards.

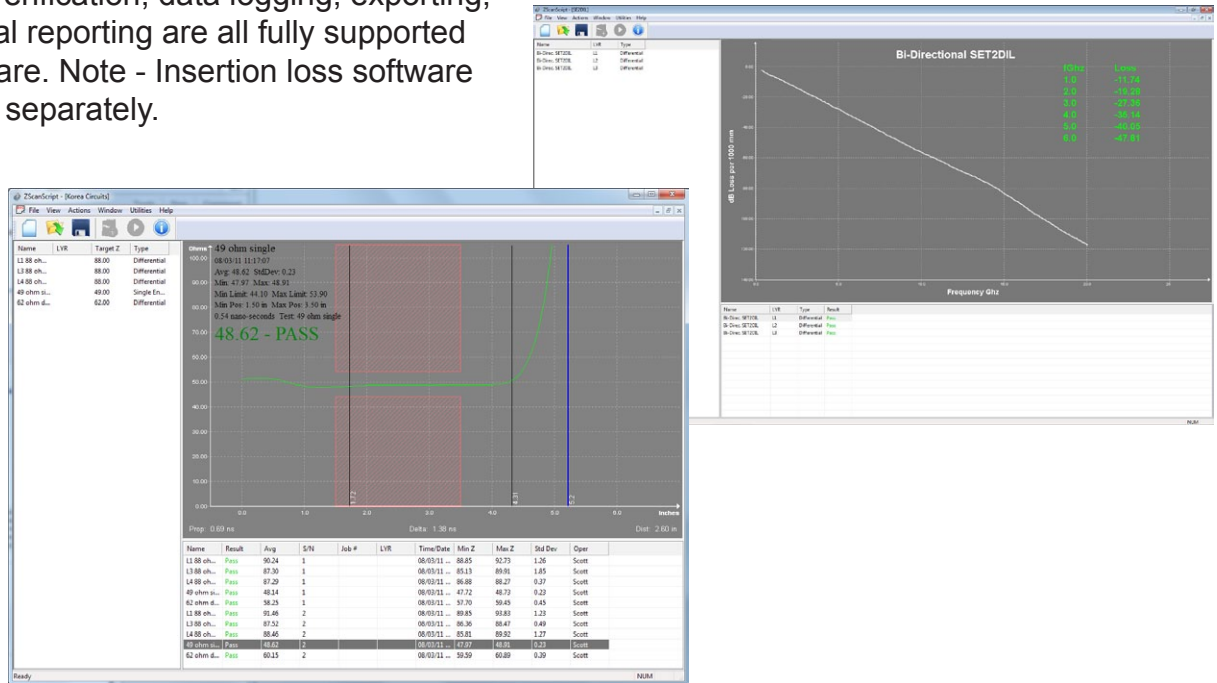
## Production Grade

Take the upgraded performance of a new 7 Ghz TDR, and mate it with a new high bandwidth ruggedized 20 Ghz TDR, and you have the new hybrid ST808. The single tool, all-in-one solution for all your TDR testing needs. Whether it's high volume coupon testing, short-trace on-board testing, or insertion loss testing, the ST808 is uniquely suited to handle all the demanding applications of a production TDR.



# Zscan Measurement Software

The Zmetrix ST808 comes standard with Windows software that automates the data gathering process through an intuitive user interface. calibration, verification, data logging, exporting, and statistical reporting are all fully supported by the software. Note - Insertion loss software module sold separately.



## High Bandwidth Probes

The Zmetrix ST808 comes with a complete line of low and high-bandwidth probes for making a variety of old and new measurements. Made from the most advanced PCB materials available, these probes can take on-board measurements with pin or trace spacings from 0.020" (0.5mm) to 0.065" (1.5mm), insertion loss measurements using the latest standards, as well as coupon measurements with a variety of pin configurations. Whatever the measurement, the ST808 has a probe that's right for the job.



## Specifications

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Bandwidth	ST800 - 20 Ghz, ST600 - 7 Ghz
Pulse Rise Time	ST800 - 25 psec, ST600 - 75 psec
Channels	ST800 - 2 (differential or single) ST660 - 4 (1 differential, 2 single)
Range	10 - 200 ohms
Accuracy	ST800 - 2% across the range ST600 - 1% across the range
Impedance Resolution	0.03 ohms
Lineal Resolution	75 points/inch (0.013")
Dimensions	17x14x2 inches
Weight	9.4 lbs.
Calibration	25, 50, 75, and 100 ohm Airlines Traceable to national standards

## Inputs

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High-speed USB peripheral port  
Test probe channels - 6 SMA Bandwidth

## Standard Accessories

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50 ohm semi-rigid standards (qty-2)	ACCST-211
100 ohm differential 7 Ghz probe	IP-D-100-1-B
100 ohm differential 7 Ghz OBT probe	IP-D-100-XX
50 ohm single-ended 7 Ghz probe	IP-S-50-1-B
100 ohm differential 20 Ghz probe	IP-D-100-HB-XX
High Bandwidth SMA Cable - 3 ft. (qty-3)	CBL-104
USB Peripheral Cable - 6 ft.	CBL-101
USB Footswitch	ACCST-300
Anti-Static wrist strap & cable	ACCST-301