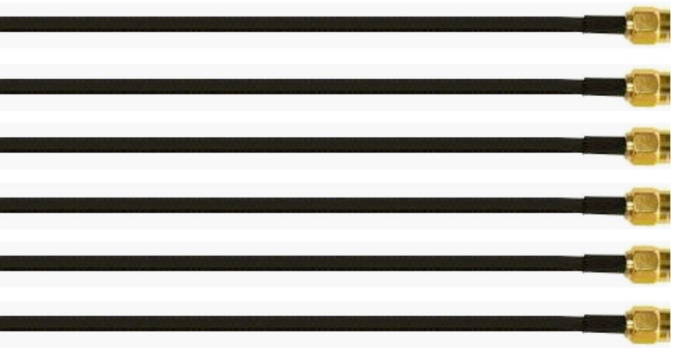
Zmetrix
Controlled Impedance Test System
ST808

6th Generation Performance é
Within your reach



- New 10 & 20 Ghz Bandwidths
- New On-Board Test capability
- New Insertion Loss Test Capability
- New High Bandwidth Probes
- New Active ESD Isolation
- Designed for Production Environments

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 TDRôs in tandem, to meet both present and future impedance measurement needs. The best of existing coupon measurements, and the future of on-board and insertion loss measurements in 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 10 Ghz TDR for traditional coupon testing, the ST808 incorporates an additional 20 Ghz TDR for on-board and insertion loss testing. Both TDRôs exhibit the same amazing ESD immunity as the widely recognized ST600. Add to that a wide range of new, inexpensive probes for on-board and insertion loss testing, and you have the tool for all your impedance measurement needs.

Production Grade

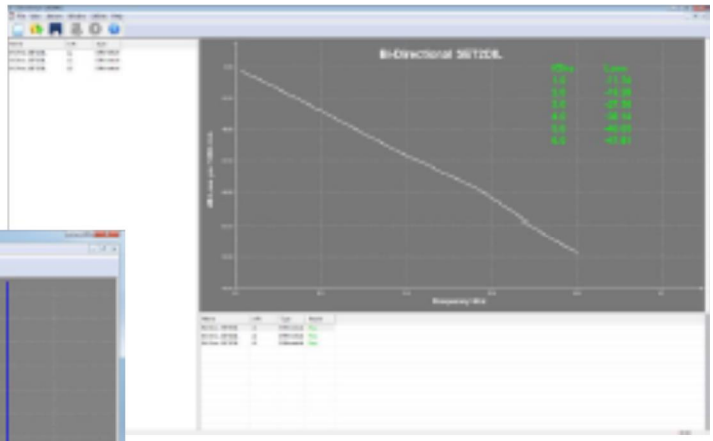
Take the upgraded performance of a new 10 Ghz TDR, and mate it with a new high bandwidth ruggedized 20 Ghz TDR, and you have the new hybrid ST808. The single tool, all-in-one solution for all your TDR testing needs. Whether itôs high volume coupon testing, short-trace on-board testing, or insertion loss testing, the ST808 is uniquely suited to meet all the demanding applications of a production line TDR.

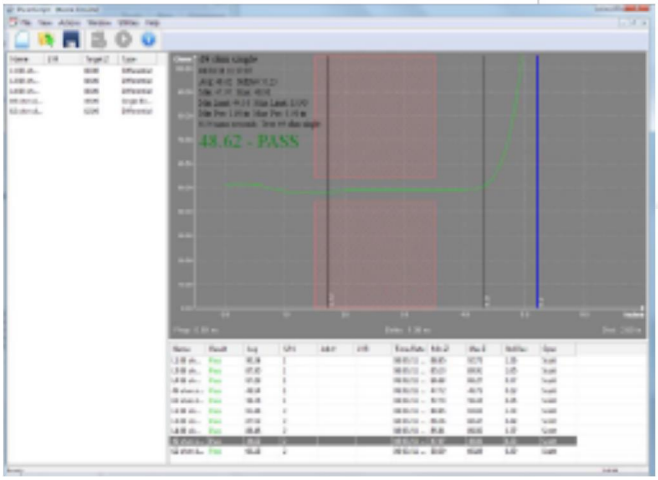
Differential 1 Single 1 Single 2 Differential 2

10 Ghz Channels 20 Ghz Channels

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.





Probes

The Zmetrix ST808 comes with a complete line of low and high bandwidth probes for making a variety of old and new measurements. From fixed pitch coupon probing, to variable pitch probing of BGA and fine pitch IC pads, to insertion loss testing, the ST808 has a comprehensive line of high and low bandwidth probes to meet every need.

Fixed Pitch
High Bandwidth

Variable Pitch
High Bandwidth

Specifications

Bandwidth	10 Ghz, 20 Ghz
Pulse Rise Time	75 psec, 20 psec
Channels	10 Ghz 3, 20 Ghz 3
Range	10 200 ohms
Accuracy	1% across the range
Impedance Resolution	0.03 ohms
Lineal Resolution	75 points/inch (0.013
Dimensions	17 X 14 X 2 inches
Weight	9.4 lbs.
Calibration	25, 50, 75, and 100 ohm Airlines Traceable to national standards

Inputs

USB 2.0 peripheral port
Test probe channels 6, SMA

Standard Accessories

50 ohm semi-rigid standard (qty-2)	ACCST-211
100 ohm differential 10 Ghz probe	IP-D-100-1-B
50 ohm single-ended 10 Ghz probe	IP-S-50-1-B
100 ohm differential 20 ghz probe	IP-D-HB-035
50 ohm single ended 20 Ghz probe	IP-S-HB-035
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

Optional Accessories

100 ohm differential 20 ghz Variable Pitch probe	IP-D-HB-VP
50 ohm single-ended 20 Ghz Variable Pitch probe	IP-S-HB-VP
NIST traceable semi-rigid standards	contact factory