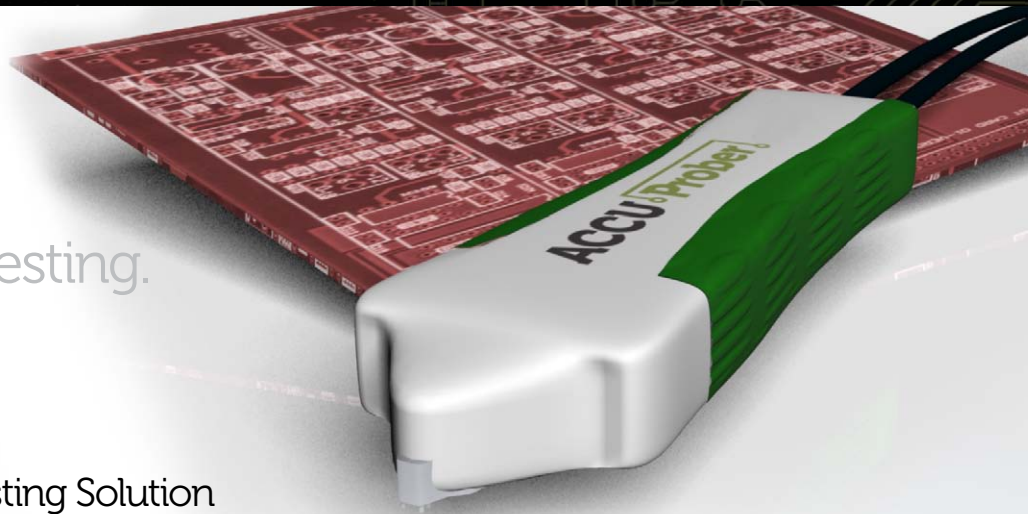


Meet the revolution  
in high frequency  
attenuation testing.



**ACCU Prober**

The Single-source Testing Solution  
for SPP, SET2DIL and EBW

**introbotix**  
Innovating High Frequency Test Solutions



The ACCU-Prober is designed for the manufacturing environment, with an easy to read software interface and foot pedal control. The ACCU-Prober Test System consists of a TDR oscilloscope ACCU-Prober Static Isolation Unit, ACCU-Prober hand held probe and ACCU-Prober System software. Once configured, the system is controlled with a simple foot pedal.

#### SPP

Introbotix developed the production test version of SPP (Short Pulse Propagation) standard. The ACCU-Prober is a fully licensed SPP testing solution.

#### EBW

This IPC TM-650 standard test methodology was developed by Introbotix to provide a simple fast PWB loss metric that can be measured during traditional impedance testing.

#### SET2DIL

The Intel® created method of testing attenuation is fully supported by the ACCU-Prober for SET2DIL (Sdd21 Differential Insertion Loss)

## The Open Platform High Frequency Testing Solution

### TDR Based High Frequency Testing

High Frequency testing has now become an essential part of quality control in manufacturing. ACCU-Prober from Introbotix is an open platform designed to meet today's testing needs as well as those of the future. The ACCU-Prober is a TDR Measurement system, delivering results from .25 Ghz to 20 Ghz. This system exceeds the requirements of today's technology and is able to adapt to the needs of high frequency testing for the foreseeable future.

### An Open Platform Built For The Future

Because ACCU-Prober is a platform, not a single purpose product, the ACCU-Prober allows manufacturing facilities to purchase a single device that can be adapted to measure impedance, prop delay, EBW, SPP, SET2DIL and future standards currently in development. This technology enables manufacturers to make an investment for today's needs while remaining upgradable and adaptable for the needs of tomorrow.

### Created for Manufacturing Environments

The ACCU-Prober is designed with manufacturing in mind. For example, the ACCU-Prober Static Isolation Unit fits precisely under the included Tektronix Oscilloscope allowing a smaller footprint and eliminating long cables. The high-contrast PC software interface is large and readable at a distance with foot pedal control. The Probe is contoured for comfort and made from slip resistant rubber with guide pins to protect the probe tips.

### Meeting Today's Standards

The ACCU-Prober is available in 3 standard configurations. ACCU-Prober Standard, ACCU-Prober for SPP and ACCU-Prober for SET2DIL. ACCU-Prober standard measures impedance, propagation delay and velocity as well as equivalent bandwidth loss. ACCU-Prober for SPP is fully licensed by SPP's developer, IBM, and has all the capabilities of the Standard plus the ability to measure Short Pulse Propagation. ACCU-Prober SET2DIL also has the features of the Standard plus it allows compliance with the Intel-created SET2DIL (Sdd21 Differential Insertion Loss).

### From the Innovator in High Frequency Testing

Introbotix is an award winning pioneer in High Frequency Testing — providing testing services for circuit board development and manufacturing.

**Tektronix®** Authorized Tektronix Reseller

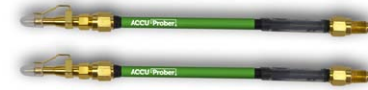
Intel is a registered trademark of Intel Corporation. IBM is a registered trademark of International Business Machines.

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Innovating High Frequency Test Solutions

## One Platform, Many Configurations

### ACCU-Prober Standard Configuration

The ACCU-Prober provides both Single and Differential Impedance measurement, plus Propagation Delay and Velocity and EBW (max slope) loss. This standard configuration includes 2 TDR probes for measurement, and automation software.



ACCU-Prober Standard

The ACCU-Prober standard allows for TM-650 2.5.5.12 standard test methods.

The Standard Configuration Includes 2 TDR Impedance Probes

### ACCU-Prober with SPP

ACCU-Prober with SPP is designed to meet the growing need of Short Pulse Propagation testing for today's high frequency printed wiring boards. It is able to measure up to 20 Ghz and is fully licensed by SPP's developer, IBM. It can be configured with a single microprobe to measure single ended loss or with two microprobes that can measure differential loss. In addition to SPP capabilities, it also includes all the same functions as ACCU-Prober standard.



ACCU-Prober Standard

+

SPP Software

SPP Probe

ACCU-Prober with SPP is a fully licensed solution by IBM.

ACCU-Prober with SPP includes the standard configuration plus the SPP Handheld Microprobe

### ACCU-Prober with SET2DIL

ACCU-Prober with SET2DIL meets the demanding standard high frequency testing as created by Intel. Measuring to the SET2DIL (Sdd21 Differential Insertion Loss) standard requires just a single microprobe to give full compliance with the Intel-created SET2DIL. In addition to SET2DIL capabilities, it also includes all the same functions as ACCU-Prober standard.



ACCU-Prober Standard

+

SET2DIL Software

SET2DIL Probe

ACCU-Prober with SET2DIL is fully compliant with the SET2DIL standard developed by Intel®.

ACCU-Prober with SET2DIL includes the standard configuration plus the SET2DIL Handheld Microprobe

## ACCU-Prober Standard

Standard Configuration	
<b>Testing Capabilities</b>	Single-ended Impedance Measurements, True Differential Impedance Measurements (IPC TM-650 2.5.5.7 Compliant) Propagation Delay, Propagation Velocity, Effective Er, TDR Waveform Collection, Equivalent Bandwidth Loss Method-EBW (Max Slope) (IPC TM-650 2.5.5.12 Compliant)
<b>ACCU-Prober Probe</b>	TDR Impedance Probes (Qty: 2) High Frequency Coax Cables-36" (Qty: 2), High Frequency Semi-Rigid Coax Cables -4" (Qty:2) Torque Wrench-SMA/3.5mm compatible
<b>Software</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>ACCU-Prober System (one license)</b></p> <ul style="list-style-type: none"> <li>Simplified Data Entry Screens for Test Program Generation</li> </ul> <p><b>Automatic Test Program Generation</b></p> <p><b>Automated system calibration procedure</b> (requires calibration airline)</p> <p><b>HFT Report Writer</b> (unlimited site license)</p> <ul style="list-style-type: none"> <li>Data filtering (date, operator, customer, PN#, Order#, Pass/Fail, etc)</li> <li>Sort and Display by Layer number or Serial Number</li> <li>Export to MSEXcel, Adobe Acrobat, etc.</li> <li>Extensive Test Report Generation (including Histograms and Out-of-Center reports)</li> </ul> </div> <div style="width: 45%;"> <p><b>TDR Waveform Viewer</b> (unlimited license)</p> <ul style="list-style-type: none"> <li>Off-line viewing of captured TDR Waveforms</li> <li>Allows easy selection of impedance measurement zone</li> <li>Displays end and midpoint VIA affects.</li> <li>Dynamic cursor provides readout of impedance along entire trace</li> <li>Creates printouts for documentation purposes</li> </ul> <p><b>Ethernet communication to existing DSA8200 and 80E04 TDR modules</b></p> </div> </div>
<b>ACCU-Prober Static Isolation Unit</b>	<p>Isolates TDR unit from static electricity</p> <ul style="list-style-type: none"> <li>Two-(2) or four-(4) output ports for TDR/TDT capability</li> <li>High Frequency Coax Cable 18" (Qty: 2 or 4)</li> <li>Foot pedal control</li> <li>USB Communications</li> </ul>
<b>Options</b>	NIST Calibrated Airline

## ACCU-Prober with SPP

Standard Configuration	
+	
SPP Capabilities	
<b>Testing</b>	SPP Production Testing (IPC TM-650 2.5.5.12 Compliant) Single-ended or Differential
<b>Probe</b>	Handheld Microprobe (Qty: 1 or 2), SPP Connector Probe (Qty: 2 or 4), Impulse Forming Network-IFN (Qty:1 or 2), High Frequency Coax Adaptor -3.5mm male-to-male (Qty:1 or 2) <i>Note: Quantity varies based on Single-ended or Differential SPP</i>
<b>Software</b>	<ul style="list-style-type: none"> <li>Automated TDR assessment of DUT</li> <li>Automated SPP pulse collections and FFT processing,</li> <li>Graphical plots of Alpha (dB/cm) and Beta (deg/cm),</li> <li>Summary Report Writing, SPP</li> <li>Waveform file creation and storage</li> </ul>

## ACCU-Prober with SET2DIL

Standard Configuration	
+	
SET2DIL Capabilities	
<b>Testing</b>	SET2DIL Test Method (Sdd21 Differential Insertion Loss)
<b>Probe</b>	1 Handheld Microprobe (Qty: 1)
<b>Software</b>	<ul style="list-style-type: none"> <li>Automated "thru" calibration procedure, SET2DIL differential impedance and Sdd21 measurements</li> <li>Summary Report Writing, Sdd21</li> <li>Waveform Viewer</li> </ul>