



# Robson Technologies, Inc.

## MultiTrace Curve Trace System

### Overview:

The MultiTrace is a mid-size, scalable test system optimized for users seeking to perform automated curve tracing on a wider range of pin counts from 216 to 625 pins and includes the PGA-625 fixture box as a standard interface. It utilizes the same software applications as the larger versions and boasts an economic footprint for benchtop testing environments. The MultiTrace provides non-destructive electrical characterization of IC packages up to 625 pins with scalable upgrades between 2, 4, and 6 bus configurations. It is compatible with RTI DataTrace, MTForms, and Standard Trace software and RTI benchtop test fixtures. Every MultiTrace is shipped with an LCD monitor, controller running the essential MT Forms software and most recent Windows® version.

### MultiTrace Hardware Features:

- ◇ Benchtop Form Factor fits on half of a typical lab bench
- ◇ Supports Pin Count from 216 to 625 pins
- ◇ 216, 324, 432 and 625 pin configurations are popular (other sizes available)
- ◇ Supports 2, 4, and 6 bus standard configurations
- ◇ 2 bus, 1080 pin and 2196 pin versions available for Desktop MultiTrace
- ◇ Many Fixtures available including
  - » PGA-625 ZIF Socket with Jumper Matrix
  - » Verifier 256 and 512 DUT Boards
  - » OctoPogo 1152 pin Fixture with 2 bus only
  - » 384 pin Pogo base (using 4 Yamaichi Cables)
  - » A variety of Cable Only connection systems (IDC or Yamaichi)
  - » Custom Fixtures to meet your specific needs
- ◇ Fixtures include access to all drives and measurement nodes by way of Banana Jacks
- ◇ Most Configurations are Upgradable
- ◇ Remote cable available for interface with Microscope for Fault Localization methods



MultiTrace with PGA-625 Fixture Box

	2 Bus	4 Bus	6 Bus
<b>Curve Tracing Models Pin Count</b>			
MT Century with Cable Interface	96/100/108	96/100/108	96/100/108
MultiTrace with PGA 625 Fixture	216-625	216-625	216-625
MegaTrace with Octopogo Fixture	up to 2160	up to 2160	up to 2160
<b>Hardware</b>			
Number of Switch Matrix Busses	2	4	6
Number of Drives (SMU)	4	8	8
<b>Standard Applications</b>			
Unpowered	x	X	X
Powered		X	X
IDDQ Supply Current		X	X
Latch-Up			X
<b>Device Complexity</b>			
Number of supply domains (VDD)	na	1	4

Chart above compares bus channel configurations



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### Software Features (all models):

- ◆ Efficient, Powerful, Mature application for Acquisition and analysis of curve trace data
- ◆ Fast and easy setup using fill in the blank forms for most standard tests
- ◆ Save and recall any test setup or device result
- ◆ Comparison testing between DUT and a “known good” device
- ◆ Create pin maps and other setup files with included utilities
- ◆ Save results to multiple graphic formats
- ◆ Automation features simplify repetitive operations and more...

Chart to the right summarizes & compares RTI’s curve trace models

	Century	MultiTrace	MegaTrace
<b>Hardware</b>			
Pin count range	96/100/108	216-625	up to 2160
PC Controller Included	Yes	Yes	Yes
Form Factor	Benchtop	Benchtop	Rolling Cart
Size, Weight (approximate)	70 lbs	200lbs	350lbs
Power requirement	120V/220V, 50/60Hz, 100W	120V/220V, 50/60Hz, 400W	120V/220V, 50/60Hz, 800W
<b>Software</b>			
Classic MultiTrace	Yes	Yes	Yes
DataTrace Basic	Yes	Yes	Yes
DataTrace Analytical	Optional	Optional	Optional
DataTrace Full Version	Optional	Optional	Optional
MTForms Basic	Yes	Yes	Yes
MTForms with Latch up	Optional	Optional	Optional
<b>Fixtures</b>			
Mini Cards and Extended Mini Cards	Yes with 950 Fixture base	Yes, with adapter system	Yes, with adapter system
RTI R1 with Yamaichi cable system	Yes	Yes, with adapter system	Yes, with adapter system
PGA Footprint DUT Boards	Yes with optional Fixture base	Yes	Yes, with PGA Adapter
Octopogo 1152	No	2 bus only	Yes
Other Board formats	Yes with Compatibility adapter	Yes with Compatibility adapter	Yes with Compatibility adapter