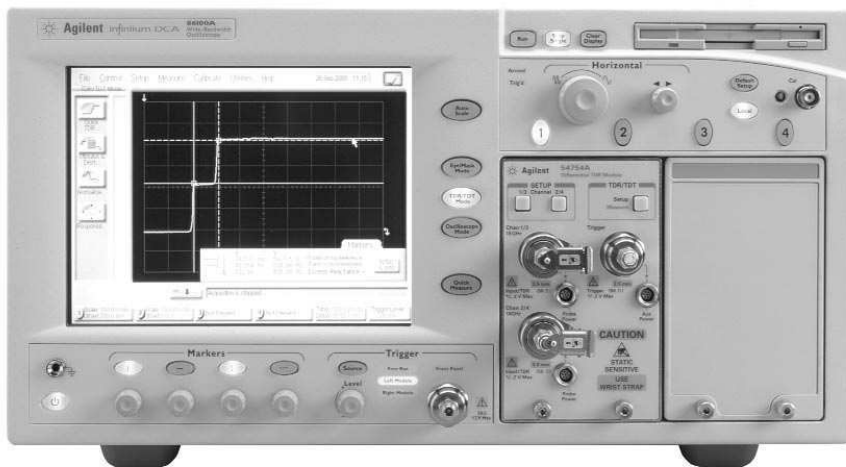
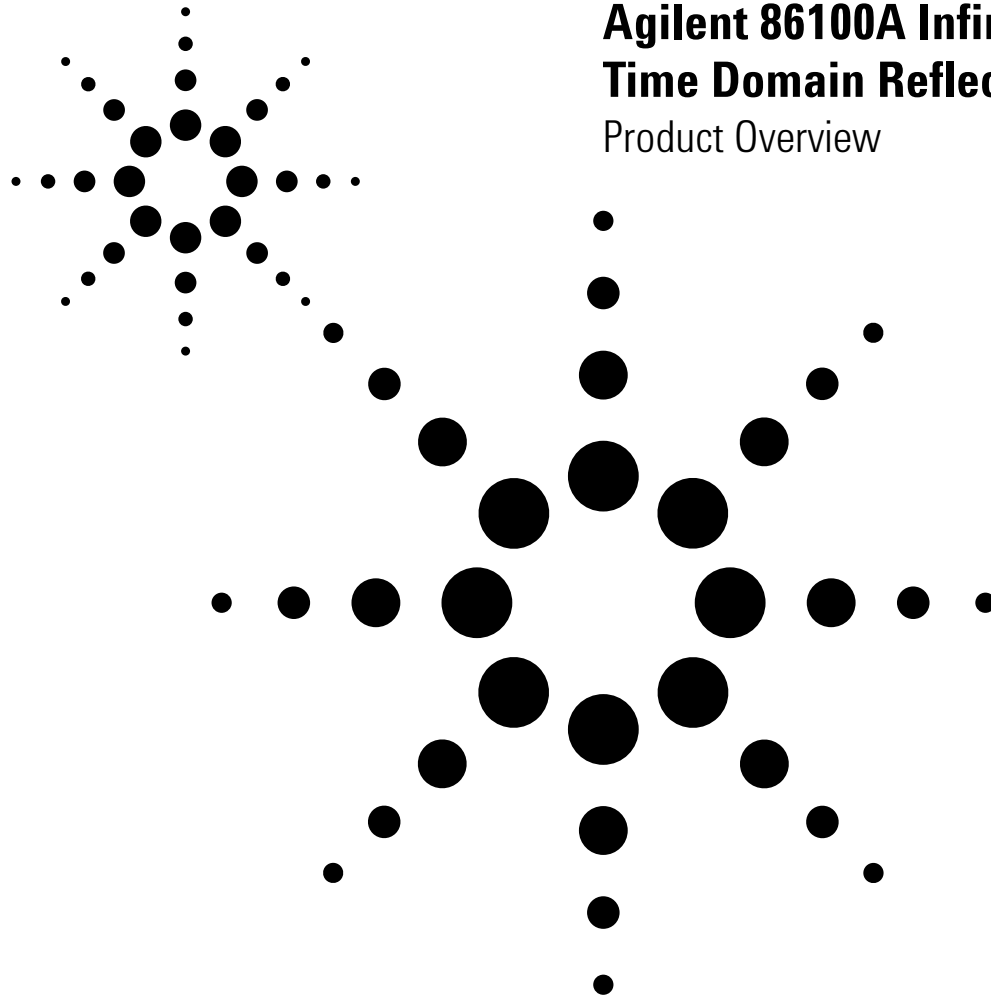


Agilent 86100A Infiniium DCA Time Domain Reflectometry Product Overview



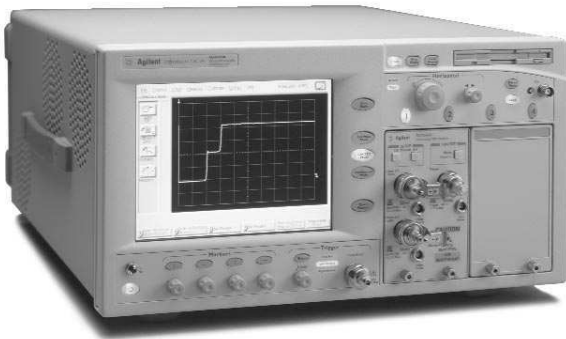
Infiniium DCA

Agilent 86100A
Wide-Bandwidth
Oscilloscope with Digital
Communications Analysis
and Time Domain
Reflectometry



Agilent Technologies

Innovating the HP Way



The Agilent 86100A Infiniium DCA with TDR has a powerful processor that allows for faster testing time, thus leading to reduced cost of test.

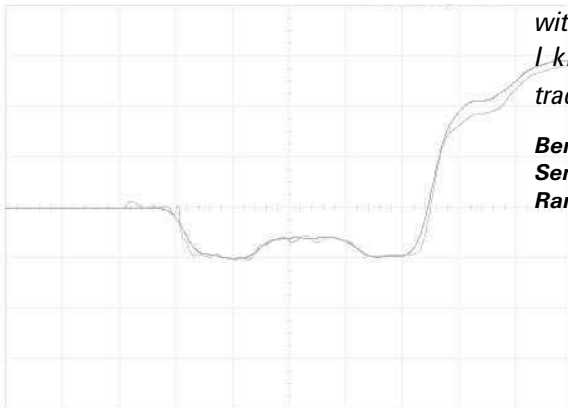
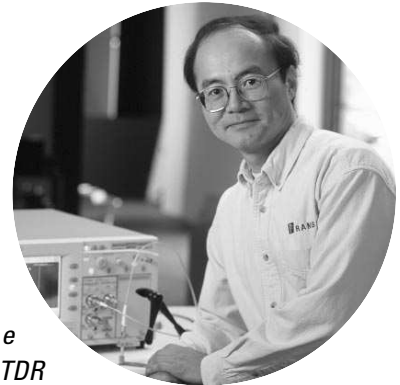
Time Domain Reflectometry (TDR) is an intuitive tool used by high-speed digital designers to verify signal integrity of printed circuit boards, cables, and connectors. The Agilent 86100A Infiniium DCA with TDR has a powerful processor that allows for faster testing time, thus leading to reduced cost of test.

The 86100A is capable of performing TDR measurements with the 54753A single-ended and 54754A differential TDR modules. It is also forward compatible with other modules used in the 83480A and 54750A digitizing oscilloscopes. The 86100A's easy-to-use Windows®-based system allows for quick access to measurements that are most important to you. Principal features include:

- 2-D Zoom Box
- On-line Help
- Enhanced Marker Capability
- Quick TDR Wizard
- Normalization
- Minimal TDR Step Overshoot

"I deal with very challenging signal integrity measurements in the laboratory. Impedance measurement accuracy is critical for verifying Rambus® motherboard and Small Outline RIMM™ designs. The Agilent TDR with Normalization is the best method I know for characterizing the short traces on these printed circuit boards."

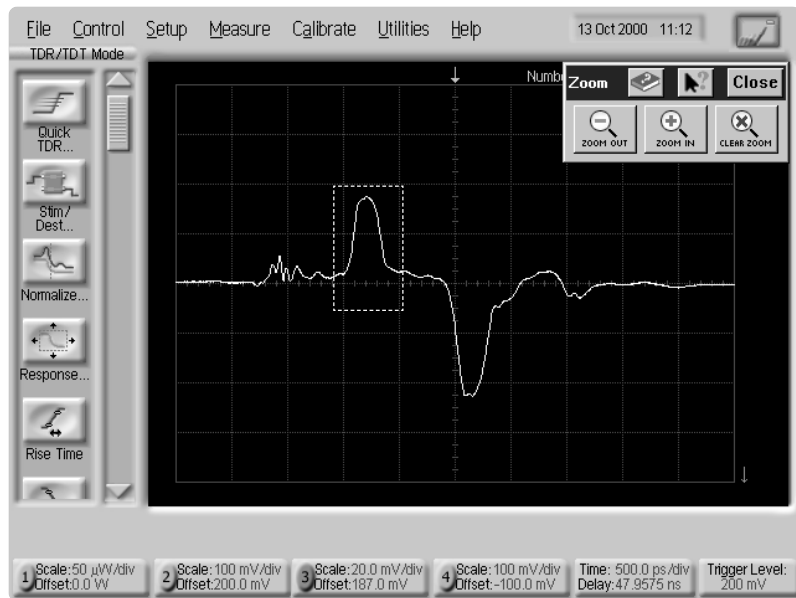
Ben Chia
Senior Member of Technical Staff
Rambus Inc.



Features

Zoom Box

Zoom box is a 2-dimensional adjustment that allows you to instantly increase the desired area of the waveform. Both the time and impedance scales adjust as a result of executing this function. This important enhancement will allow you to save critical time by eliminating extra steps that would otherwise be necessary for enlarging key portions of a waveform.

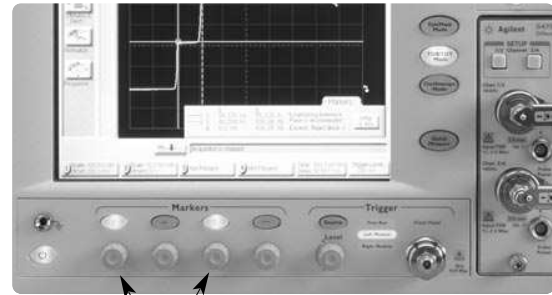


Help

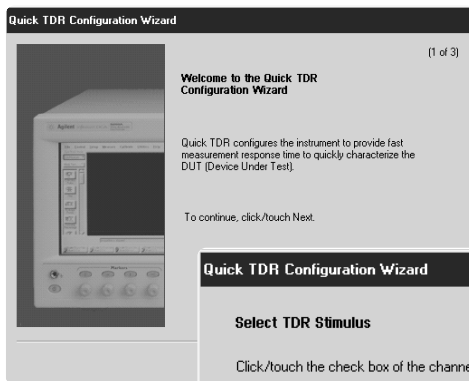
Help is available on-line for immediate answers to questions. TDR basics as well as many other useful tools have been downloaded into the instrument for easy access. Helpful links have been put into place to direct you to specific information you need, when you need it.

Usability

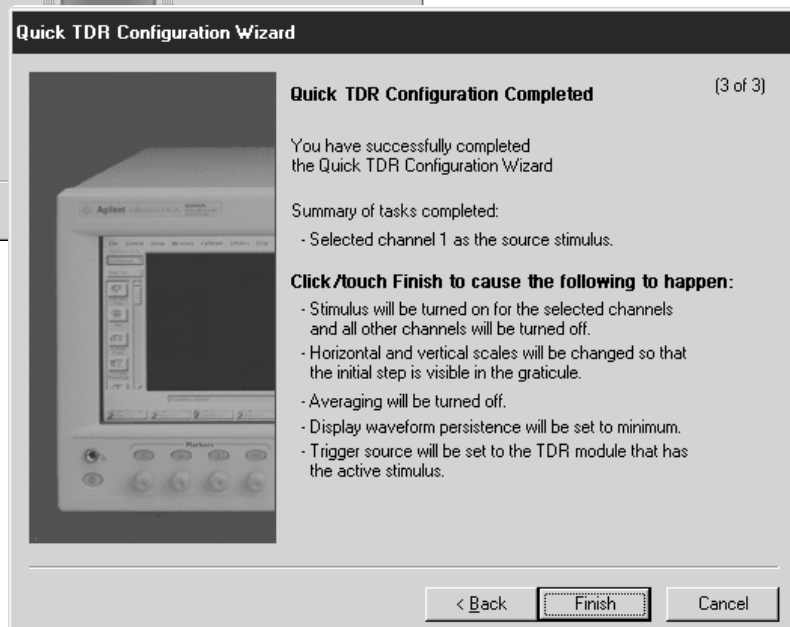
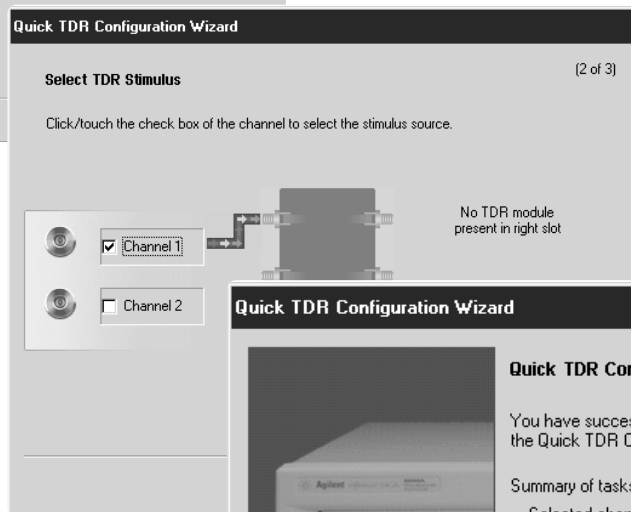
To increase the ease of use, TDR waveform measurement markers now have dedicated buttons. The marker will instantly snap onto the screen by the push of a button. In addition, each of these markers has their own knob, which is located right on the front panel.



Marker knobs

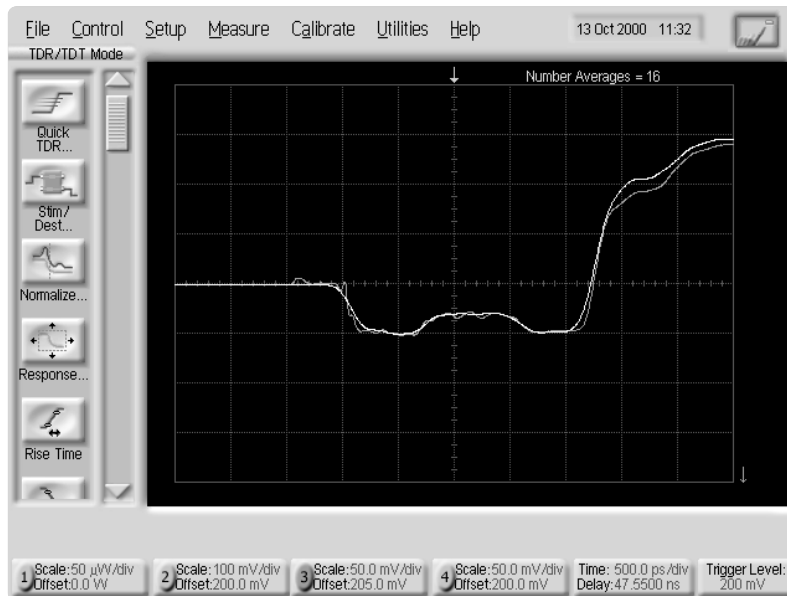
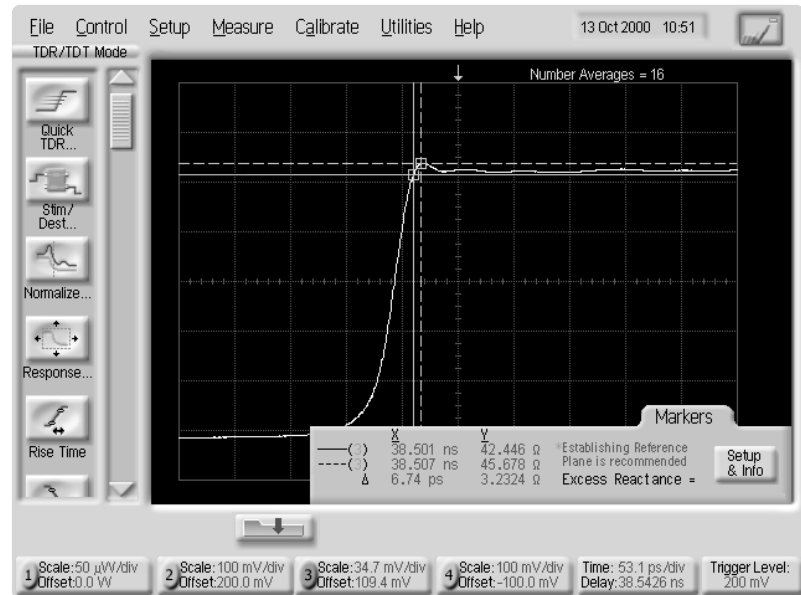


Quick TDR Wizard is a way for novice users to become quickly familiar with the TDR setup. This wizard takes the user step by step through detailed explanations of how the instrument is being set up.

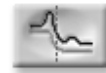


Superior Accuracy

TDR step fidelity is crucial for high accuracy impedance measurements. With less than 5% overshoot, the 86100A has the best-in-class TDR step flatness.



TDR normalization sets the reference plane at the probe tip. This technique is a two-point calibration using a precision 50-ohm load and a short. The processing power of the 86100A then builds a digital filter, which corrects for test fixture errors in the frequency domain.



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