Spectra DTP4700 Probe Toolbox

Five Probes to Facilitate Efficient Waveform Development and Debugging

The Spectra DTP4700 Probe Toolbox is designed to reduce turn-around time for developing new waveforms on Spectra DTP4700 by providing a multi-processor debugging capability during integration.

The Probe Toolbox is a real-time debugging tool with the ability to prove and excite waveform elements, thus allowing the piecemeal integration of waveform components one-by-one, and the validation of component temporal, processor, and memory behaviours independently. Probe data is visualized either with the toolbox's internal visualizer, ProbeViz, or through MATLAB/Simulink, thus eliminating the need for additional 3rd-party tooling licenses for data visualization.

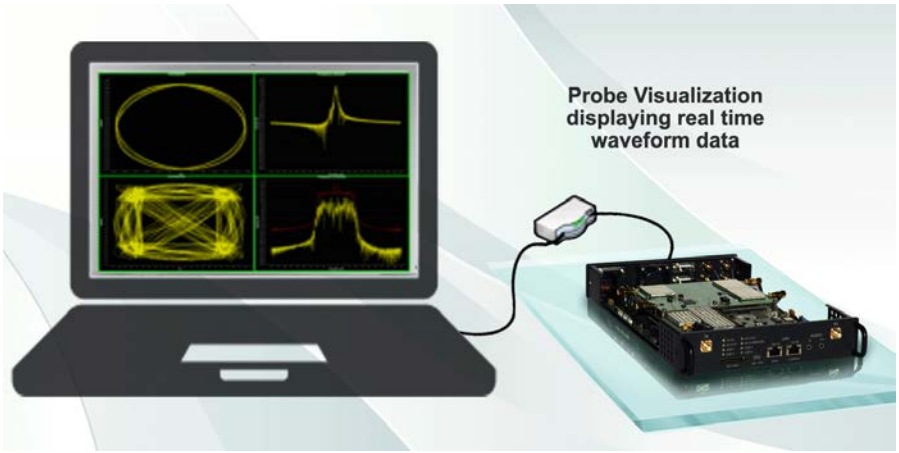
*The toolbox's **Data Probe** allows monitoring or injection of real-time system flow data. The **Resource Probe** provides graphical or textual representation of memory and CPU utilization, CPU resources, and allow memory Peeks and Pokes. The **Latency Probe** provides a graphical display of latency for user-defined probe points based on a uniform system time reference. The **Traffic Probe** captures and displays network traffic. The **SCA Adapter Probe** provides latency, traffic and data probes in an SCA-compliant environment. By using the Probe Toolbox, a developer or systems engineer can thus study real-time data in any connected waveform with ease.*

Spectra DTP4700 Probe Toolbox Benefits

- Using the Probe Toolbox through the waveform porting cycle
- Increases engineer productivity
- Reduces porting and integration effort
- Decreases defect-error rates
- Reduces time-to-deploy
- Lowers overall project cost and schedule risk
- With the Probe Toolbox, the waveform developer can study critical waveform and platform traffic on multiple processors and the interaction between the processors.

Spectra DTP4700 Probe Toolbox Features

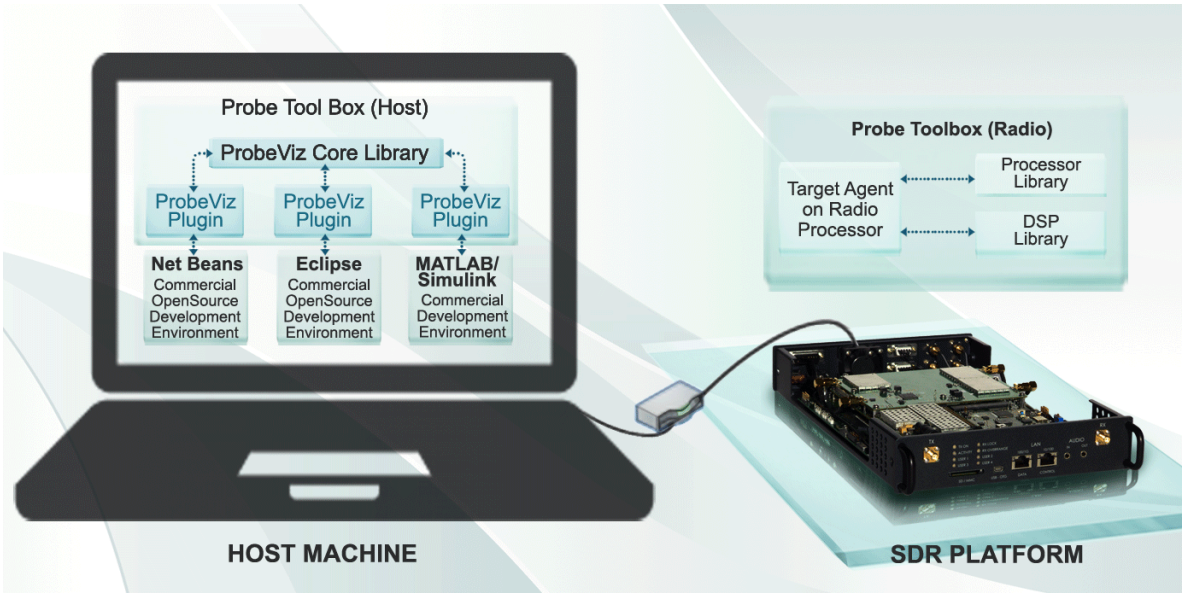
- Data Probe
- Inject or capture GPP/DSP stream data
- Synchronize and trigger multiple probe points
- Capture block data
- Interface to MATLAB/Simulink
- Resource Probe
  - Memory and CPU utilization graphs
  - CPU resource detail
  - Memory Peeks and Pokes
- Latency Probe
  - Capture and display timestamp information with a synchronized time base across the GPP and DSP
- Traffic Probe
  - Capture and display network traffic
- SCA Adapter Probe
  - Integrated with ADLINK's Spectra Core Framework to show traffic, latency, and data in an SCA environment



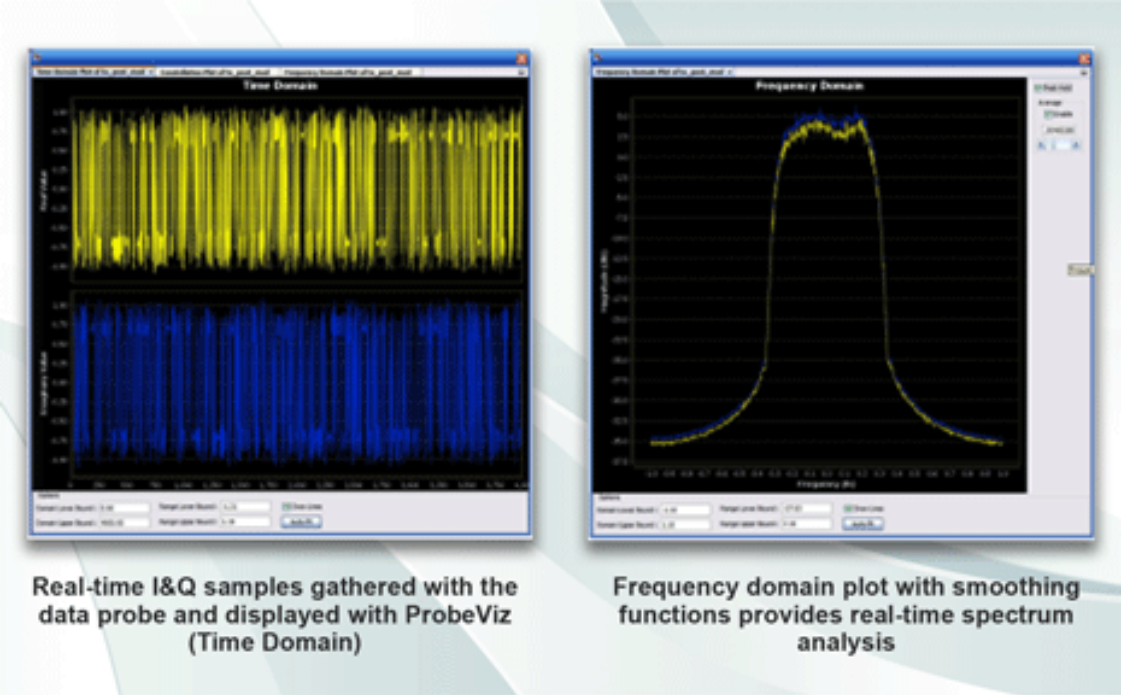
Applications

- Validate waveform and platform data by applying probes at varying points in the GPP and DSP
- Gather data in heterogeneous multiprocessor environments

Probe Toolbox Configuration



Probe Visualizer Examples



For More Information

For further information regarding Spectra DTP4700 Probe Toolbox please e-mail: ist_info@adlinktech.com or visit: ist.adlinktech.com

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