



## Beagle USB 5000 SuperSpeed Protocol Analyzer

Part Number: TP320910



Priced below \$10,000, the Beagle™ USB 5000 SuperSpeed Protocol Analyzer is the world's most affordable USB 3.0 bus monitor. The Beagle USB 5000 SuperSpeed analyzer is a leading-edge protocol analyzer built to monitor the next generation of USB protocol, SuperSpeed USB.

The Beagle USB 5000 SuperSpeed analyzer is an affordable real-time bus monitor that captures and displays USB traffic and bus-states (up to 5 Gbps). Free software, royalty-free API, and cross-platform support for Windows, Linux, and Mac OS X make it user-friendly and versatile.

The Beagle USB 5000 SuperSpeed analyzer is also feature-rich, offering strong filter and search functions, class-level decoding, and triggers.

The Beagle USB 5000 SuperSpeed Protocol Analyzer will be available in Q3 2010.

### *Key Features*

#### **Overview**

- Non-intrusively monitor USB (up to 5 Gbps)
- Real-time [USB class-level decoding](#) with the free [Data Center Software](#)
- Precise timing down to 2 ns resolution
- Automatic support for data scrambling, spread spectrum clocking, and receiver equalization
- Hardware-based packet suppression
- Digital inputs and outputs for synchronizing with external logic
- Free software and API available

- Fully Windows, Linux, and Mac OS X compatible

### **True Real-Time Performance**

Non-intrusively monitor USB 3.0 and 2.0 and see data as it is captured on the bus. Avoid engineering bottlenecks resulting from the delayed download of captured traffic. Beagle USB 5000 SuperSpeed analyzer users can start debugging as soon as the data appears on the bus.

### **Real-Time USB Class-level Decoding with the Data Center Software**

Debug USB faster and more easily with real-time decoding of class-level data. The Data Center Software now supports more classes.

### **Fast Data Analysis**

Filter and quickly search data of interest. Easily look for any ASCII, hexadecimal, or binary data pattern while the capture is still running. The Beagle USB 5000 SuperSpeed analyzer features timing down to 2 ns resolution.

### **Collaboration**

Easily share data with your colleagues around the world using the freely downloadable Data Center Software. Send captures to your colleagues, and they can view the data exactly as you see it. A royalty-free API is also available for download.

## *Software*

### **Data Center Software**



The [Data Center Software](#) is the free software that is included with the Beagle™ USB 5000 SuperSpeed Protocol Analyzer. Everyone is welcome to download this software from the Total Phase website to allow for easy collaboration through the sharing of capture data files.

Features include:

- Capture and display USB traffic in true real time with LiveDisplay™ technology
- Interactive filtering and searching in real time with LiveFilter™ and LiveSearch™ tools

- Packets data grouped in an expandable tree view format

## **Rosetta Language Bindings - Development API**

The full power of the Beagle analyzer is available for custom software applications through a free and royalty-free API. Developers have access to the same API used by the Data Center Software. Full functionality is available for automated test suites, production test fixtures, and more.

- Develop custom solutions in C/C++, C#, VB, .NET, Python
- Custom parsing of proprietary protocols
- Clean API is well-documented and easy to integrate
- Fully Windows, Linux, and Mac OS X compatible
- Royalty-free API can be used without licensing fees

## **Compatibility**



The Beagle Protocol Analyzer was engineered from the very beginning to be a cross-platform device. The software and utilities for the Beagle Protocol Analyzer function on Windows, Linux and Mac OS X so that you can develop software for your preferred platform.

### **Windows**

The software is officially supported on Windows XP (SP2 or later, 32-bit only), Windows Vista (32-bit and 64-bit), and Windows 7 (32-bit and 64-bit).

### **Linux**

The software has been designed for Red Hat Enterprise Linux 4 and 5 with kernel 2.6. Customers have reported successful operation with SuSE and Ubuntu distributions. Please be aware that there may be significant differences and idiosyncracies in the way that different distributions of Linux operate. As such, Total Phase may not be able to support your particular distribution of Linux. Support will be offered on a case-by-case basis.

### **Mac OS X**

The software is supported on Intel versions of Mac OS X 10.4 Tiger and 10.5 Leopard.

## **64-bit Support**

The software will run on 64-bit Windows, Linux, and Mac OS X systems as a 32-bit application.

## **Free upgrades**

You will never have to worry about being out of step with the latest software features. Software and firmware upgrades are always freely available in the [Downloads](#) section of this website.