

Beagle USB 480 Protocol Analyzer Part Number: TP320510



The Beagle™ USB 480 Protocol Analyzer is a low cost, non-intrusive High-speed USB 2.0 bus monitor that now includes real-time USB class-level decoding.

The Beagle USB 480 analyzer is capable of capturing, and interactively displaying high-speed USB bus-states and traffic in real-time with timing at 16.7 ns resolution and comes complete with software and royalty-free API. Thanks to an on-board 64 MB buffer, sustained bursts of 480 Mbps traffic can be captured with no loss of data.

Overview

- Non-intrusively monitor High-speed USB 2.0 (up to 480 Mbps)
- Real-time USB class-level decoding with the Data Center Software
- Two capture modes: real-time and delayed-download
- High-speed USB chirp detection
- Robust automatic speed detection
- Hardware-based packet suppression
- Digital inputs and outputs for synchronizing with external logic
- Detect suspend/resume events and unexpected signals
- Free software and API available
- Fully Windows, Linux, and Mac OS X compatible

What is Included

Every unit comes complete with the following items:

- Beagle USB 480 Protocol Analyzer unit
- (1) 6 foot USB A->B cable
- (1) 1 foot USB A->B cable
- (1) 1.5 foot Mini-DIN 9 Digital I/O cable
- Software CD
 - Windows USB Drivers
 - Linux USB Hot Plug Configuration files
 - Data Center Software
 - Datasheets

SPECIFICATIONS

Real-time capture and delayed-download capture

The Beagle USB 480 Protocol Analyzer has two different capture modes: real-time capture and delayed-download capture. The real-time capture mode allows developers to see all the high-speed data over USB as it happens. As the data is streamed in real-time, the capture size is only limited by the amount of RAM available on the analysis computer.

The delayed-download capture can be very useful in certain situations, such as when the Beagle USB 480 Protocol Analyzer is on the same high-speed bus as the target device. In these configurations, the Beagle analyzer is able to consume minimal USB bandwidth so that it does not obscure problems that occur only when the target is operating at the full USB bandwidth.

USB Class-Level Decoding

Real-time USB class-level decoding in the Data Center Software is available with the Beagle USB 480 Protocol Analyzer

High-Speed USB Chirp Detection

The Beagle USB 480 Protocol Analyzer can capture and display the K and J chirp patterns used in high-speed speed negotiations.



Automatic Speed Detection

The Beagle USB 480 Protocol Analyzer is able to robustly and reliably detect the correct speed of the USB data it is monitoring.

Hardware-based packet suppression

A hardware input filter is available to suppress packets in order to reduce the amount of data captured. The filter can remove empty packet pairs such as IN/NAK and PING/NAK pairs.

Digital I/O for synchronizing

To assist in identifying problems, the Beagle USB 480 Protocol Analyzer provides four digital inputs that allow users to capture additional hardware events in-line with the captured USB data from the target device.

Four digital outputs are available to provide for synchronization of the Beagle analyzer with scopes and logic analyzers. These digital outputs are able to match patterns in the captured data as well as idle bus states.

Detect Bus Events and Unexpected Signals

The Beagle USB 480 Protocol Analyzer can intelligently detect suspend and resume events as well as unexpected signals on the bus.

Packet-Level Timing

Get packet-level timing with 16.67 ns resolution.

Low Cost

No Hidden Fees

The Beagle USB 480 Protocol Analyzer comes complete with software. There is no additional yearly support contracts and no fees for software updates. The low cost makes it affordable for a company to provide every developer with their own analyzer. The benefits of every developer having their own analyzer are:

- **Less time wasted** because developers do not have to share analyzers or go to the lab to debug simple problems.
- Less wasted time means **higher productivity** because developers can identify and fix problems quickly and easily with less down-time.
- Higher productivity means **shorter development cycles**. Projects get done on time and on budget.

By saving a day of engineering time, the Beagle USB 480 analyzer will have paid for itself.

Future-Proof

The Beagle monitor is completely field-upgradable via USB. Total Phase is committed to improving the Beagle USB analyzer and making these improvements available to our customers free of charge. There are no yearly support contracts and no software update fees.

Updates will be available for download from www.totalphase.com

DISTRIBUTOR



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