Beagle™
USB 12
Protocol Analyzer



Key Features

Real-Time Non-Intrusive Monitoring
- Full-/Low-Speed USB 2.0 (up to 12 Mbps)

Data Center™ Software
- Real-time display, search, and filtering of captured data
- Descriptor decoding
- Capture traces to >25 GB
- Cross-platform support for Windows, Linux, macOS

Beagle API
- Create custom software applications
- Example files included

USB Bus-Powered
- Portable
- No extra power adapters needed

Quality
- CE, REACH, RoHS
- Manufacturing: ISO 9001, ISO 13485, AS9100C, ITAR
- One year warranty

An ever-wider array of devices and the increasing pressure to minimize costs means that you need to get the most out of your embedded systems interface tools - and the Beagle USB 12 Protocol Analyzer is expressly designed to enable your competitive edge.

The Beagle USB 12 Protocol Analyzer is the ideal tool for debugging and monitoring traffic on your full- and low-speed USB based applications. The Beagle analyzer provides a high performance bus monitoring solution in a small, portable package. It provides fast, interactive, real-time visibility into the protocol layer of your embedded system.

Enhanced Visibility
- Interactive debugging: make a change and see the results in real-time
- Real-time filter displays user-defined views
- Longer recording buffer than a scope (data streamed to PC's memory)
- Collaborate easily by sharing saved captures with colleagues with free Data Center software

Enumeration Debugging
The Beagle USB 12 analyzer is capable of analyzing all USB traffic that is passed through its ports, including the enumeration process. Many USB communication errors occur during this initial "handshake" between host and device. The analyzer is able to capture and display low-level bus events, dataless transactions, and parse all the descriptors, enabling USB developers to quickly and easily identify problems in their application.

Applications

Audio	HID	Mobile Broadband	Tablets
Bridges	Hubs	Mobile Phones	Video
Cameras	Mass Storage	Music Players	

Specifications

Software

The Data Center™ Software is a bus monitoring software application that displays captured USB, I2C, SPI, and CAN bus data in true real-time through the Beagle™ line of hardware protocol analyzers and the Komodo™ line of CAN interfaces.

Data Center Software Features

- LiveDisplay™ technology allows for real-time interactive display and analysis of full- and low-speed USB (up to 12 Mbps)
- Automatic descriptor parsing
- LiveFilter™ and LiveSearch™ tools allow for real-time interactive filtering and searching
- Collaborate easily by sharing capture files
- Export saved capture files to CSV format

Beagle API and LabVIEW Support

- Create custom applications using the flexible, powerful, and well-documented Beagle API
- 32- and 64-bit support for C/C++/C#, Python, .NET, VB.Net, VB 6
- LabVIEW Instrument drivers

Operating Systems Supported (32-bit and 64-bit)

- Windows: 7, 10, 11, and later
- Linux: Red Hat, SuSE, Ubuntu, Fedora
- macOS: 13 and later

Hardware

USB Monitoring:

Full Speed, 12 Mbps

Low Speed, 1.5 Mbps Tar get Bus Interface

Target Device Port:

USB Type A receptacle

Target Host Port:

USB Type B receptacle

Analysis Port (connects to PC):

USB Type B receptacle

Analyzer is bus-powered

Dimensions (W x D x L)

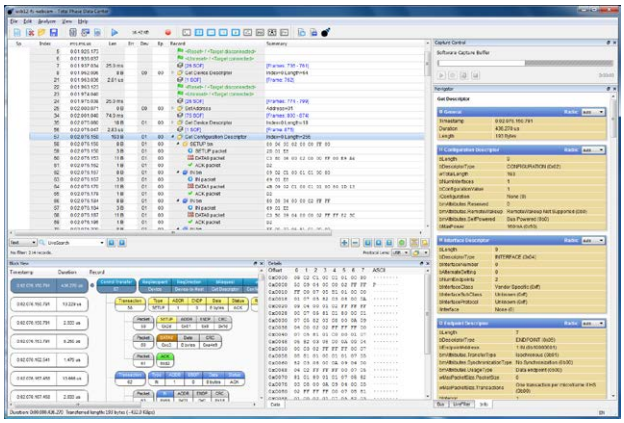
55.6 x 22.2 x 89 mm (2.19" x 0.87" x 3.5")

Weight

64 g (0.14 lbs)

Operating Temperature

10 to 35 °C (50 to 95 °F)



Data Center

Ordering information

Beagle USB 12 Protocol Analyzer	
Part Number	TP320221
Country of Origin	USA
HTS	9030890100
ECCN	EAR99

TOTAL PHASE

+1 (408) 850-6501 | sales@totalphase.com | www.totalphase.com

©2025 Total Phase, Inc. All rights reserved.