

Beagle™

USB 480 Power Protocol Analyzer

Key Features

Current/Voltage Monitor

- Real-time graphing of V_{BUS} current and voltage values
- Interactive and bi-directional correlation of current/voltage values with USB data

USB 2.0 Advanced Triggers¹

- Create state-based and flexible trigger conditions based on data patterns, packet types, error types, events, and other criteria
- Hardware packet filtering
- Up to eight independent states and six matches per state for USB 2.0 captures
- Digital inputs and outputs to synchronize with oscilloscopes or logic analyzers

High-Performance HW Buffer

- 256 MB capacity
- Large circular buffer

Real-Time Non-Intrusive Monitorina

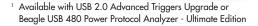
- Real-time data analysis and display
- Automatic bus speed detection
- Low/Full/High-Speed USB 2.0
- Capture traces to >25 GB

Real-Time USB Class-Level Decoding

- HID, Audio, Video, Still Image, Printer
- Mass Storage, Hub
- Network, Mobile, CDC

Quality

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





As USB devices continue to grow in number and complexity, developers need their monitoring and analysis tools to keep pace. The Beagle™ USB 480 Power Protocol Analyzer enables your competitive edge with its unique, powerful features and a price that is a fraction of competing equipment.

The Beagle USB 480 Power Protocol Analyzer Series enables V_{BUS} current and voltage measurement within our industry-leading Data Center software. The enhanced USB 2.0 advanced triggering, extralarge hardware buffer, and one-click correlation of voltage and current measurement to protocol-level activity ensures that engineers can take advantage of our unique real-time data analysis and display, enabling them to easily debug the functionality of their embedded systems while also optimizing the power profile of their applications.

Link V_{BUS} Current/Voltage Measurements with USB Data

Other than DMMs and oscilloscopes, few tools are dedicated to measuring current and voltage of USB V_{BUS} – and even fewer link these measurements with captured USB data. The Beagle USB 480 Power Protocol Analyzer correlates current and voltage data with USB traffic at the click of a mouse button.

Create USB 2.0 Advanced Triggers and Filters

Build flexible state-based event triggers with up to eight independent states and six matches per state for USB 2.0 captures. Developers can now trigger the capture, filter data, or set external triggers by matching data patterns, packet types, error types, events, and other criteria.

Host-Side Use Case

Developers of host-related products such as rechargeable batteries, tablets, and laptops can verify their V_{BUS} current/voltage output, and monitor any effects caused by the attachment of various peripheral devices.

Device-Side Use Case

There is a plethora of USB peripherals on the market, each with its own specific power consumption profile. Developers of peripherals such as web cameras, HID devices, mobile devices, and portable mass storage devices can verify how much current and voltage their devices consume, with respect to timing and USB data.

Applications

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

Software

The Data Center™ Software is a bus monitoring software application that displays captured USB, I2C, ŠPI, 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

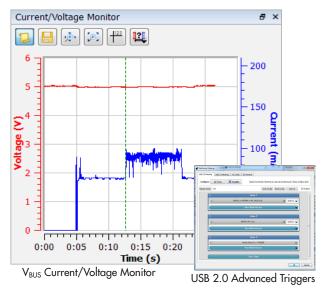
- Real-time V_{BUS} current/voltage monitoring
- Interactive correlation of current/voltage with USB data
- USB 2.0 advanced user-defined triggers available
- LiveDisplay[™] technology allows for capture and display of current/voltage readings and USB traffic
- LiveFilter[™] and LiveSearch[™] tools allow for real-time interactive filtering and searching
- Real-time USB class-level decoding
- Collaborate easily by sharing capture files

Beagle API

- Create your own custom applications using the flexible, powerful, and well-documented Beagle API
- Supported languages: C/C++/C#, Python, .NET, VB.NET, Visual Basic 6

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

- Windows: XP, Vista, 7, 8, 8.1
- Linux: Red Hat, SuSE, Ubuntu, Fedora, Arch, CentOS, Debian
- Mac OS X: 10.4, 10.5, 10.6, 10.7, 10.8



Hardware

USB 2.0 Monitoring:

High Speed, 480 Mbps Full Speed, 12 Mbps Low Speed, 1.5 Mbps

Target Device Port:

USB 2.0 Type A receptacle

Target Host Port:

USB 2.0 Type B receptacle

Analysis Port (connects to PC):

USB 2.0 Type B receptacle Analyzer is bus-powered

Digital I/O Port:

Mini DIN 9 connector

4 inputs, 4 outputs, 1 ground

Digital inputs are rated for 3.3 V and max 30 MHz

Digital outputs are rated for 3.3 V and 10 mA

Current/Voltage Measurement: 注意:ただし定常的にVbusに Peak Current: 3 A (transient)

流せる最大電流は1Aです。 Peak Voltage: 20 V (transient) 1A以上流さないように利用 しなければなりません。

Dimensions:

W x D x L: 70 mm x 26 mm x 114 mm $(2.76 \text{ in} \times 1.02 \text{ in} \times 4.49 \text{ in})$

Weight:

97.5 g (0.21 lbs)

Operating Temperature:

10 to 35 C (50 to 95 °F)

お問い合わせは、

TotalPhase 国内代理店 立野電脳(株)へ USB3.0/USB2.0/I2C/SPI/CAN/MDIOアナライザや、 I2C/SPIコントローラ,ROM書き込み冶具 標準在庫

Beagle USB 480 Power Protocol Analyzer - Ultimate Edition Beagle USB 480 Power Protocol Analyzer - Standard Edition USB2.0 Advanced Triggers Upgrade

(Standard からUltimateへのUpgradeオプション)



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