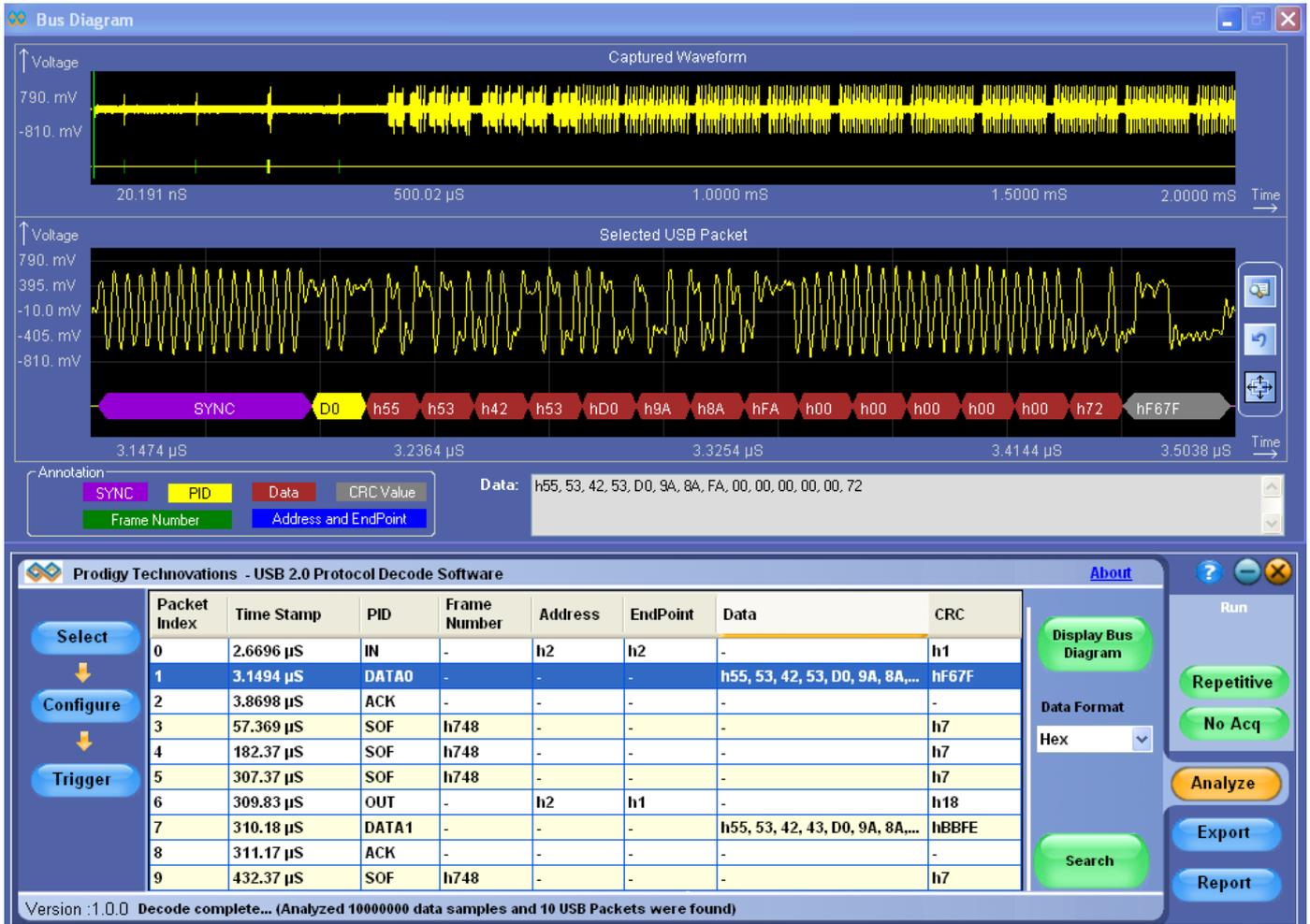# PGY-USB2.0 Protocol Decode Software

▶ PGY-USB Data Sheet

Comprehensive USB2.0 Protocol Decode Testing

Engineers designing hardware and firmware for the USB2.0 protocol are constantly seeking ways to debug their designs with easy-to-use instruments such as oscilloscopes. Often, they need a single tool or instrument to cross-examine the protocol layer and the PHY layer to debug the designs.

The PGY-USB USB2.0 Protocol Decode Software offers low speed, full speed, and high speed protocol decoding of the data acquired by Tektronix Windows-based oscilloscopes. With PGY-USB engineers can debug the USB2.0 physical and protocol layer problems using Tektronix Windows-based oscilloscopes such as the TDS7000B, DPO7000B, DPO/DSA/MSO70000 oscilloscope series.

Seamless Integration with Oscilloscope

PGY-USB software integrates with Tektronix oscilloscopes offering to setup the triggering on USB protocol content using the serial trigger in oscilloscope. PGY-USB runs inside the Tektronix oscilloscopes and directly decodes the USB signal and displays it in a bus diagram, a protocol decode table, and links the decoded data to electrical signal in the oscilloscopes.

Productivity Improvement

To improve productivity, PGY-USB2.0 offers various debug tools such as search, zoom and color coding of USB packets. To share and archive the data, PGY-USB2.0 offers Export and Report generation capability.

PGY-USB2.0 Protocol Decode Software
▶ PGY-USB Data Sheet

Features

- Decodes the low speed, full speed, and high speed USB 2.0 signals for easy understanding of protocol between host and device
- Links the protocol content to the physical layer signal in the oscilloscope for easy understanding of the electrical characteristics of the protocol
- Overlays the protocol data on analog waveform in a bus diagram wind
- The USB packet selected in the decode table is zoomed in the bus diagram for easy analysis of electrical characteristics of the USB packet
- Color coding of protocol content for easy analysis
- Search capabilities to locate unique events in thousands of protocol data
- Ability to view the decoded protocol data in various formats such as hexadecimal, decimal, binary, octal, and ASCII.
- Ability to store the USB protocol data in CSV and txt format
- Utilities such as zoom, undo, and fit screen helps in debugging while correlating the protocol data to the waveform
- Export and Report generation features make sharing and archival of protocol data a trivial activity.
- Supports wfm and isf file formats for offline analysis

Ordering Information

Option: PGY-USB
USB2.0 Protocol Decode Software (shipment includes CD with PGY-USB software and license key)

About Prodigy Technovations Pvt Ltd

Prodigy Technovations Pvt Ltd (www.prodigytechno.com) is a leading global technology provider of Protocol Decode, and PHY layer testing solutions on test and measurement equipment. The company's ongoing efforts include successful implementation of innovative and comprehensive protocol decode and PHY Layer testing solutions that span the serial data, telecommunications, automotive, and defence electronics sectors worldwide.

Other products

- I2C Protocol Analysis Software
- SPI Protocol Analysis Software
- UART/RS232 Protocol Decode Solution
- FlexRay Protocol and SI Analysis Software
- I2S Electrical, Audio, and Protocol Testing Software

Oscilloscopes Supported

The following Tektronix oscilloscopes are supported:
- DPO7000 Series
- DPO/MSO70000 Series
- DPO/DSA70000B Series
- TDS7000B Series