USB EXPLORER 200

High End USB 2.0 Protocol Analyzer

Overview

The USB Explorer 200 is a USB protocol analyzer that allows you to display the bus states and the packets sent, decode the descriptors, detect errors in devices or drivers and measure their performances.

It is the ideal companion for anyone developing USB peripherals, embedded software or drivers. Its analysis and display software is easy to use so that you can quickly learn all about USB protocol.

Connect the analyzer between any USB host and any USB peripheral to instantly view the traffic. When capturing the packets, the real-time statistics display allows you to check the bus status even before you look at the packets which have been read.

The USB transactions and transfers are displayed in a chronological list together with the peripheral's address and the endpoint number. A second window gives details on the selected item. To make it easier to identify the packets you are interested in, the software provides filtering and packet colour coding functions.

Contact Information

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ellisys™

The powerful USB 2.0 protocol analyzer for developing USB systems

The USB Explorer 200 is a non-intrusive high speed USB 2.0 protocol analyzer allowing you to display the bus states and the packets sent, decode the descriptors, detect errors and incompatibilities in devices or drivers and measure their performance. Very simple to use, it is the ideal companion for anyone developing USB devices, hosts, embedded software or drivers.

Highlights

- ✓ Compatible with all three USB 2.0 speeds
- ✓ Automatic discovery of the Link Under Test speed
- ✓ Measurement of USB bus states and protocols
- ✓ Affordable pricing scheme allowing you to provide one unit per developer
- ✓ Non intrusive analysis
- ✓ Small and robust enclosure, powered by the USB bus
- ✓ Scalable design of the hardware
- ✓ Display of transactions and transfers layers
- ✓ High level decoding of standard requests and descriptors
- ✓ Free viewer software

Applications

- Enumeration issues verification and validation
- USB device and host development
- Performances analysis
- USB drivers and software stacks debugging
- Quick learning of the USB protocol
- Test-bench automation

LOW SPEED FULL SPEED HIGH SPEED

High End USB 2.0 Protocol Analyzer

Technical specifications

Enclosure

- Width: 150 mm (5.91'')
- Length: 120 mm (4.72'')
- Height: 65 mm (2.56'')
- Weight: 850 g (1.9 lbs.)

Analysis Computer Connector

- USB 2.0 high speed (480 Mbps)

Link Under Test Connectors

- USB 2.0 high speed (480 Mbit/s), full speed (12 Mbit/s) and low speed (1.5 Mbit/s)
- Automatic discovery of the Link Under Test speed

Trigger Connector

- Type: BNC
- Input: 5 V max, 1 MÙ
- Output: 3.3 V, max 20 mA
- Absolute maximum ratings: -0.5 V .. +6.5 V, 50 mA

Indicators

- Power: illuminated when the analyzer in powered on
- Activity: illuminated in green when packets are detected (in red when they are recorded)
- Trigger: illuminated in green when a trigger is detected in input (in red when detected in output)

Memory

- 32 MBytes of FIFO memory
- Analyzed data are transmitted continuously

Bus analysis

- Timestamp: 16.67 ns (60 MHz) precision
- Low-level errors: detection of bit-stuffing, CRC-5 and CRC-16 errors
- Bus states: detection and measurement of Reset, Suspend, Keep Alive and High-Speed Handshake states

Power supply

- Powered by the USB port of the Analysis Computer
- No external power supply needed

Hardware upgrade

- The decoding engine and the firmware can be updated by software

Product warranty

- Two years limited warranty

Ellisys reserves the right to change the features and specifications of the product without notice.

Requirements

- Pentium III 600MHz
- 128 MBytes RAM
- USB 2.0 host controller
- Display: 800x600, 256 colors
- Internet Explorer 5.0 or higher
- Windows® 2000 Service Pack 4, Windows® XP Service Pack 1 or higher

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