



# USB TRACKER 110

Low Cost USB Protocol Analyzer

## OVERVIEW

The USB Tracker 110 is a USB protocol analyser enabling you to display the packets sent, decode the descriptors, detect errors in peripherals or drivers and measure their performance.

It is the ideal companion for anyone developing USB peripherals, embedded software or drivers. Its analysis and display software is so easy to use so that you can quickly learn all about USB. Its small size will enable you to always take it with you.

Connect the USB Tracker between a personal computer or a laptop and any USB peripheral to instantly view traffic. When capturing the packets, the real-time statistical display permits you to check the bus status, even before you look at the packets that have been read. These are displayed in a chronological list together with the peripheral's address and the endpoint number. A second window provides details on the selected item.

## CONTACT INFORMATION

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## The low-cost USB protocol analyzer for developing USB systems

The USB Tracker 110 is the ideal USB analyzer to support the development of a USB system and related software. It enables a USB device to be verified at different level of abstraction. We have paid particular attention to the design of the user-interface, which presents data in a clear and precise way. It analyzes the operation of an existing device, searches for any incompatibility and measures the performance of a driver or piece of equipment, we hope you will be completely satisfied with the USB Tracker!

## Highlights

- ✓ Compatible with classical USB 2.0 speeds
- ✓ Detection and measurement of USB bus states
- ✓ Non intrusive analysis with high impedance probe
- ✓ Automatic discovery of the Link Under Test speed
- ✓ Personal analyzer
- ✓ Display of transactions and transfers layers
- ✓ Requests and descriptors decoding
- ✓ Small and robust enclosure, powered by the USB bus
- ✓ Scalable design of the hardware
- ✓ Free viewer software

## Applications

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

## Technical specifications

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### Enclosure

- Width: 85 mm (3.35")
- Length: 80 mm (3.15")
- Height: 45 mm (1.77")
- Weight: 100 g (0.2 lbs)

### Analysis Computer Connector

- USB 2.0 high speed (480 Mbps)

### Link Under Test Connectors

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

### Indicators

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

### Memory

- Analyzed data are transmitted continuously

### Bus analysis

- Timestamp: 20.83 ns (48 MHz) precision
- Low-level errors: detection of bit-stuffing, CRC-5 and CRC-16 errors
- Bus states: detection and measurement of Reset, Suspend and Keep Alive

### 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

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

## Know more...

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For more information about the USB Tracker, please visit the website dedicated to this tool:

[www.usbtracker.com](http://www.usbtracker.com)