USB

ComProbe®
PROTOCOL ANALYSIS SYSTEM

USB Protocol Analyzer

The ComProbe USB Protocol Analyzer includes powerful ComProbe software and the USB hardware interface.

End users love the simplicity and ease of plugging in a USB device and having it work reliably. As a software or hardware developer or test engineer, you know the difficulty of creating such dependable and user-friendly products.

Troubleshooting USB devices is challenging - there is a lot of data on the wire, and it is moving quickly. Too much data and and you are overwhelmed; too little data and you are left guessing. You need a tool that provides visibility so you can determine exactly what is going on, and analyze precisely what you want to see, when you want to see it.

The ComProbe® USB Protocol Analyzer makes it easy to understand what is occurring on a USB circuit by simultaneously capturing, decoding, displaying, filtering, and detecting errors live. For example, when debugging the communication between the USB mouse and the host PC, USB events and transactions are decoded according to USB specifications and displayed instantaneously in the ComProbe software as the mouse moves. Other analyzers only capture data, then review what was captured. ComProbe USB eliminates the second step, making it an efficient, time-saving, and easy-to-use tool.

Key Features and Benefits

- **Comprehensive Protocol Analysis**
  Can be used in conjunction with other ComProbe devices for interoperability analysis over multiple bus types

- **World-Class Decodes**
  Detailed, extensive and mature decodes support a wide range of applications, and help simplify understanding of complex protocols

- **The Data You Want**
  Non-intrusive capture gives you the bus activities and packets you want, and supresses the SOF, NAK and dataless transactions you don't need

- **Analysis Made Easy**
  Automatic detection of all three USB 2.0 speeds, data color coding and single-click export simplify complex analysis processes

- **Perfect for Field or Bench**
  The small form-factor USB-powered hardware interface gives testers and developers the freedom to analyze USB communications on the go

- **Affordable Analysis**
  Receive free software and protocol decoder upgrades for the life of this already budget-friendly analyzer

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Use the ComProbe SD hardware interface to physically tap a USB circuit and feed data into the ComProbe software.

Host Computer

Device Under Test

Analysis Computer Running ComProbe Software

Summary Pane displays a one line overview of each data frame/message. Click on any line to reveal detail in mutiple panes below.

Decode Pane shows comprehensive layered decoders of each frame/message with clear, concise descriptions.

Logical Data Pane shows data in binary, hex and character format.

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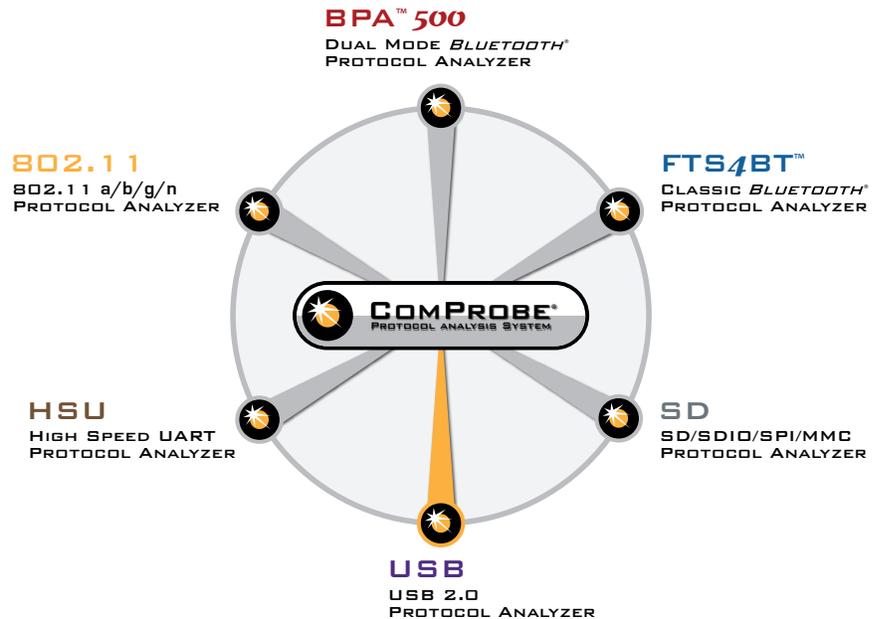## The ComProbe USB Hardware Interface

The ComProbe USB Protocol Analyzer includes the portable and robust USB hardware interface, which supports connectivity to USB 1.0, 1.1 and 2.0-equipped devices.

The USB interface is one member of an extensive arsenal of technology-specific hardware interfaces, all functioning with the powerful ComProbe software. This modular approach allows greater flexibility in protocol analysis and debugging, and provides comprehensive coexistence views over virtually any combination of protocols.

Minimum PC Requirements

- Pentium PC 1Ghz or faster
- Windows XP (32-bit) or Windows 7 (32-bit or 64-bit)
- 1GB of RAM
- 50MB free disk space
- USB 2.0 port (for ComProbe USB hardware interface)

BPA™ 500
Dual Mode *Bluetooth*®
Protocol Analyzer

802.11
802.11 a/b/g/n
Protocol Analyzer

FTS4BT™
Classic *Bluetooth*®
Protocol Analyzer

COMPROBE®
Protocol analysis System

HSU
High Speed UART
Protocol Analyzer

SD
SD/SDIO/SPI/MMC
Protocol Analyzer

USB
USB 2.0
Protocol Analyzer

The ComProbe Modular Approach

ComProbe software is at the core of Frontline protocol analysis, allowing technology-specific hardware interfaces to work individually or in combination with other hardware interfaces. This modular approach gives the developer or analyst the widest possible range of scenarios for debugging complex communications.

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