LeCroy

Protocol Solutions Group
Product Datasheet

USB*Mobile*™ T2
USB Protocol Analyzer

USB*Mobile* T2

- Intuitive CATC Trace
- Incredible Price

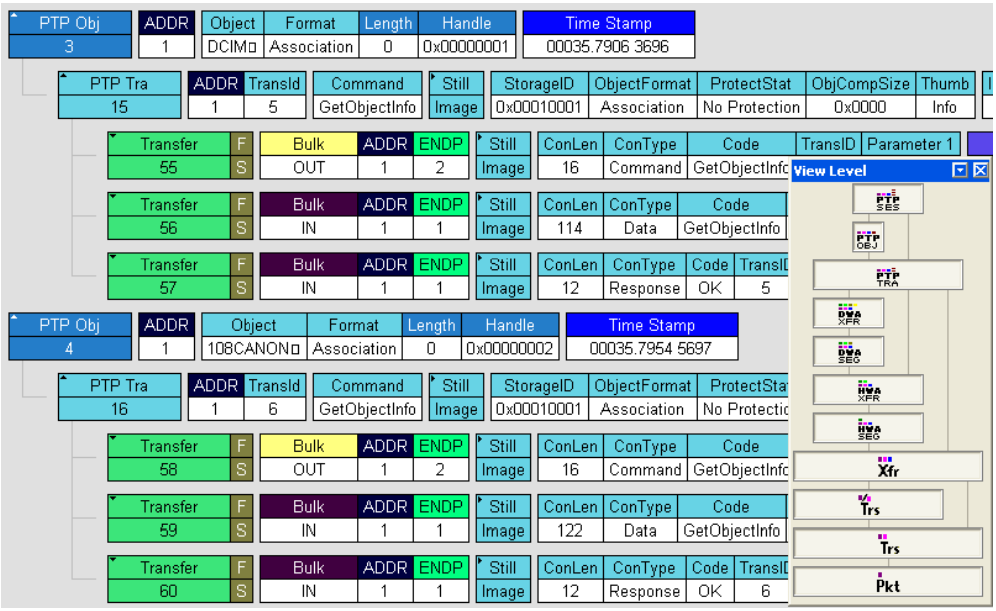
Key Features

- **PC Card Form Factor**
  Portable operation with any PCMCIA-compatible PC
- **CATC Trace Analysis Software**
  Faster interpretation and debug of USB traffic
- **Supports USB 2.0**
  Capable of capturing all USB speeds including OTG (On-The-Go)
- **64 MByte Recording Memory**
  Extend capture windows with real-time hardware-based filtering
- **2 Mini AB USB Ports & Cables**
  Designed to reduce bulk and maintain portability and compact size
- **High Impedance Probe**
  Non-intrusive probe preserves real-world signal and timing conditions
- **Advanced Triggering**
  Isolates important traffic, specific errors or data patterns
- **Extensive Decodes**
  Mass Storage, Bluetooth HCI, Hub, PTP/Still Image, Printer, Human Interface Devices (HID), Audio and Communication
- **Hardware Filtering**
  Automatically exclude non-essential events from the trace
- **Event Reporting**
  Quickly identify and track error rates, abnormal bus or timing conditions

The USB*Mobile* T2 is the industry's smallest, most affordable hardware-based USB 2.0 protocol analyzer family that combines the de-facto standard CATC Trace™ display with powerful analysis features. The USB*Mobile* T2 fits into a single PCMCIA slot in a laptop computer yet provides much of the same lab quality protocol analysis offered in top-of-the-line USB analyzers.

USB Device Decoding

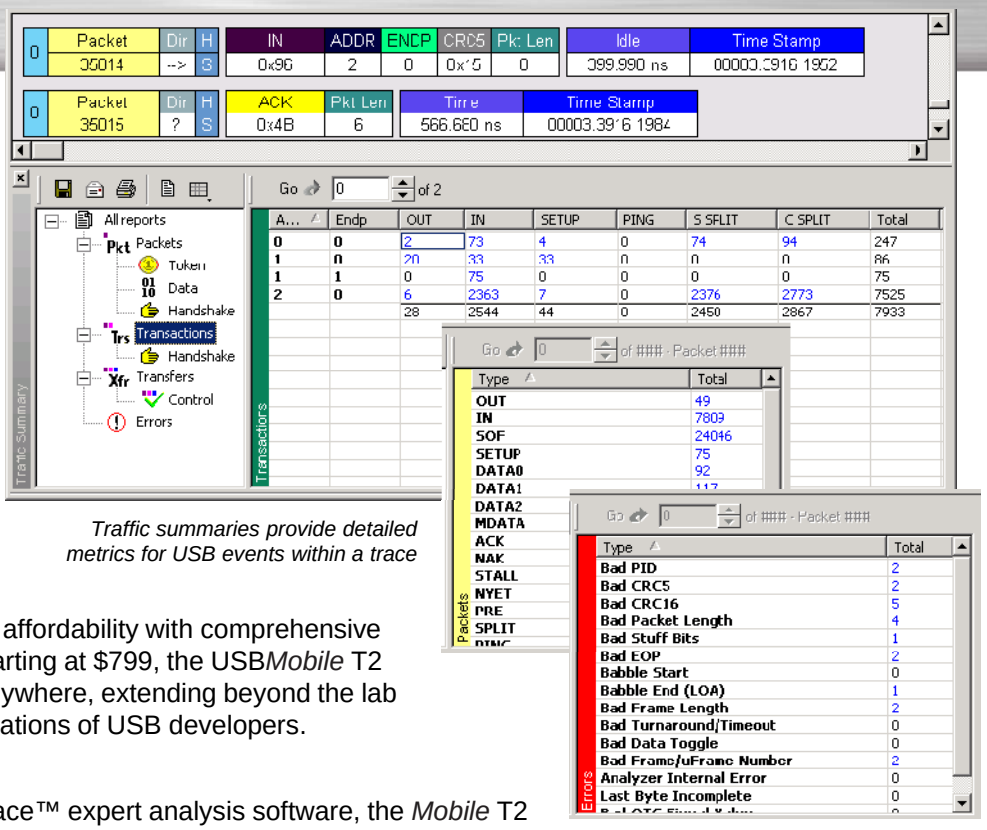
Comprehensive USB device class decoding is included in every model of the USB*Mobile* T2. This allows users to see upper-level mapped protocol events within the trace, eliminating the tedious process of manually decoding device specific commands.



Intelligent display shows each layer of the USB protocol plus device class decodes such as Picture Transfer Protocol (PTP)

Application Layer Analyzer

The low cost USB*Mobile* PDQ captures device class transfers with full application decoding and precise timestamps without the “bits-and-bytes” of the lower layers. It generates all the detailed reports including the error summary and the Data View which shows payloads in Hex or decimal. Ideal for driver and application developers using off-the-shelf USB components.



Traffic summaries provide detailed metrics for USB events within a trace

Affordable and Portable

The USB*Mobile* T2 leads the industry in affordability with comprehensive USB 2.0 test and analysis solutions. Starting at $799, the USB*Mobile* T2 PC Card design can be used virtually anywhere, extending beyond the lab environment over to the personal workstations of USB developers.

View and Understand USB Protocol

Featuring the industry-leading CATC Trace™ expert analysis software, the *Mobile* T2 system provides an easy-to-use display that graphically decodes logical protocol events. With the Standard or Advanced edition, all protocol levels can be expanded to show the underlying transactions and packets.

Real Time Triggering

Isolating specific protocol events with real time triggering is essential to resolving intermittent problems. Each USB*Mobile* provides some ability to trigger on events of interest.

Find the Issues Fast

USB*Mobile* provides many mechanisms to measure and report on USB traffic. The Bus Utilization graphs data, packet length, and bus usage by device and other statistical data. Using the Traffic Summary window, users can evaluate statistical reports at a glance or navigate to individual fields.

Host Requirements	Windows Vista or Windows XP, Intel Pentium II processor or greater, PCMCIA port
Standard Trigger Events	Packet Identifier, Token Pattern, Frame Pattern, Device Request, Data Pattern, Bus Conditions, Errors, Transactions, Data Length, Splits
Reporting and Statistics	Packet Level, Transaction Level, Transfer Level, Error Reports
Trace Memory Size	64 MB
Power Consumption	Idle: 500 mA (typical) , Active: 560 mA (typical)
Connectors	16-bit Type II PC card, 2 Mini-AB USB receptacles
Operating Environment	0 °C to 55 °C (32 °F to 131 °F) 10% to 90% RH (non-condensing)
Non-Operating	-20 °C to 80 °C (-4 °F to 176 °F)
Dimensions	135 mm x 54 mm x 10.5 mm (5.3" x 2.1" x 0.4")
Net Weight	51 g (1.8 oz.)

Comparison of Features

	USB*Mobile* PDQ **$799**	USB*Mobile* Standard **$1,199**	USB*Mobile* Advanced **$1,999**
Part Number	USB-T0Q2-M01-X	USB-T0S2-M01-X	USB-T0A2-M01-X
USB 2.0 / USB 1.1 / OTG	✓	✓	✓
Recording Memory	64 MB	64 MB	64 MB
View Packet Layer /Bus Cond.		✓	✓
View Transaction Layer		✓	✓
View Transfer / Appl.Layers	✓	✓	✓
Triggering PID Type, Address		✓	✓
Triggering Payload & Dev. Req.	✓	✓	✓
Max Seq. Events per Trig. Seq.	1	2	4
Max No of Trig. Sequences	1	1	2
Filter PIDs / Truncate Data PL		✓	✓

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