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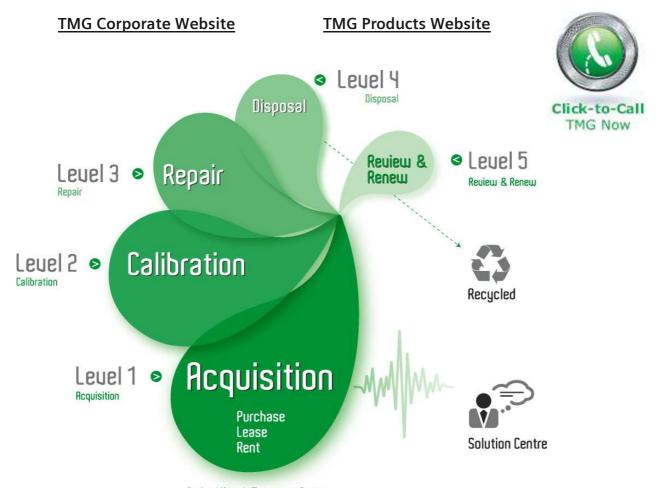
This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

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Product Lifecycle Management System

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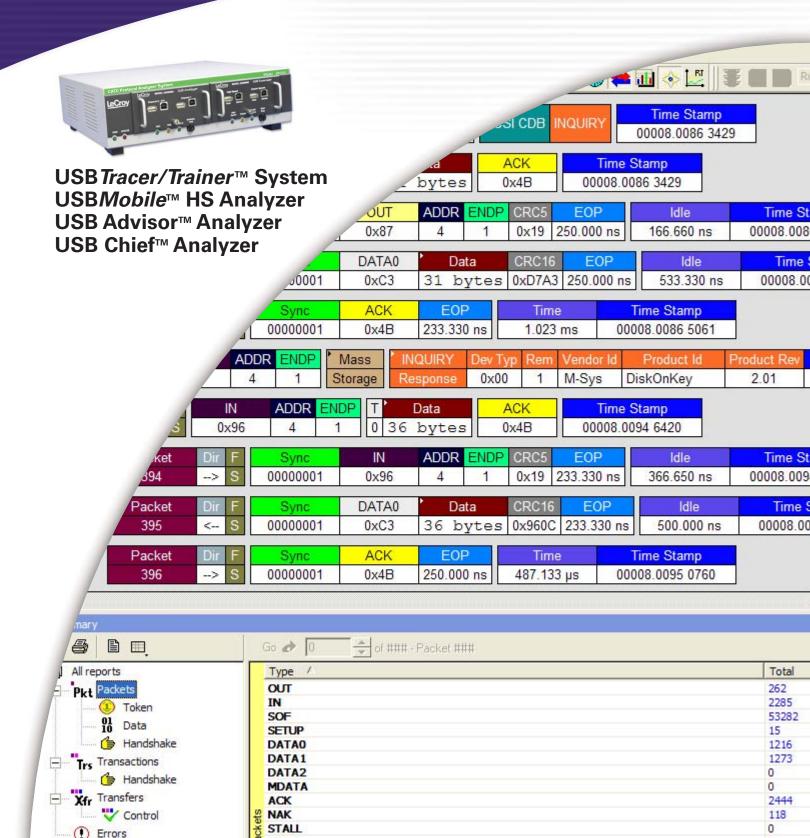






LeCroy

UNIVERSAL SERIAL BUS PROTOCOL SOLUTIONS FOR TESTING AND VERIFICATION



LeCroy[®], a worldwide leader in serial data test solutions, creates advanced instruments that drive product innovation by quickly measuring, analyzing and verifying complex electronic signals. With systems available for protocol layer testing, LeCroy offers a complete solution to meet the unique demands of Universal Serial Bus (USB) technology. Our solutions have been used by the industry for over a decade, and have been accepted as the standard for USB development and testing.

Diverse Systems for USB

LeCroy offers the widest range of USB protocol analyzers and exercisers in the industry. Our low cost and modular solutions are available for use with USB 2.0, 1.1, and On-the-Go (OTG) standards. Each system has a non-intrusive design that preserves the real world timing conditions by monitoring the links without affecting signal timing, thus assuring you uncompromised data integrity. For more unique developments, you can create your own custom class decodes to further extend the capabilities of the system.

USB All Speed *Tracer/Trainer* System

The USB Tracer/Trainer system is built with the CATC™ Protocol Analyzer System 2500H as its foundation for stable and reliable measurements. The industry leading 512 Mbyte of memory and advanced filtering are more than adequate for even the most complex



traffic recordings. With interchangeable plug-ins and field upgradeable firmware, the USB *Tracer* analyzer provides both USB 2.0 and OTG support. The OTG support automatically displays host negotiation protocol (HNP) and session request protocol (SRP), and captures Vbus and Data Line pulses allowing for a complete end to end look at OTG occurrences on the bus.

The USB *Trainer* exerciser is available as a plug-in module, and has both host and device emulation capabilities. It employs an Intelliframe mode that actively searches for a response from the device under test, and issues the next appropriate packet. As a complete solution, the USB *Tracer/Trainer* system gives you the unique ability to record

live traffic and then playback the exact data stream using the *Trainer* exerciser. This saves time in setting up the *Trainer* operations and provides an easy way to recreate problems reported in the field.

USB Classic *Tracer/Trainer*System

The USB Classic *Tracer/Trainer* system has all the features of the All Speed model, except that it only supports USB 1.1 and OTG, making it the ideal low cost solution for HID (Human Interface Device) developers. They are field upgradeable to the All Speed products for USB 2.0 development and testing.



USB*Mobile* HS Portable Analyzer

The USB*Mobile* HS module is a highly portable bus and protocol analyzer that connects through your computer's PCMCIA port. This PC card size analyzer supports the USB 2.0 and OTG standards, and is fully compatible with the CATC Trace™ software.



USB Advisor Protocol Analyzer

The USB Advisor protocol analyzer is an excellent tool for developing USB 2.0 devices. Like all of our USB systems, this stand-alone unit works in conjunction with the CATC Trace display software.



USB Chief & Chief Plus Protocol Analyzer

The USB Chief analyzer is our lowest cost system for capturing, decoding, and analyzing USB 1.1 full and low speed traffic. The USB Chief Plus analyzer has the added value of USB traffic generation.

Powerful display views for easy analysis of protocol traffic

LeCroy's *Tracer* analysis software gives you a variety of powerful tools for displaying and analyzing bus traffic. The *Tracer* software allows you to organize and display packets, transactions and transfers hierarchically as well as group split transaction together.

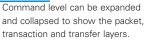
The USB analyzer records all the data on the bus. Unfiltered USB traffic contains thousands of packets, which can make it difficult for you to analyze and discover errors within the trace. Within the CATC Trace™ software display, you can preserve the details, but also have an easy way to view the host and device communications.

For instance, you can:

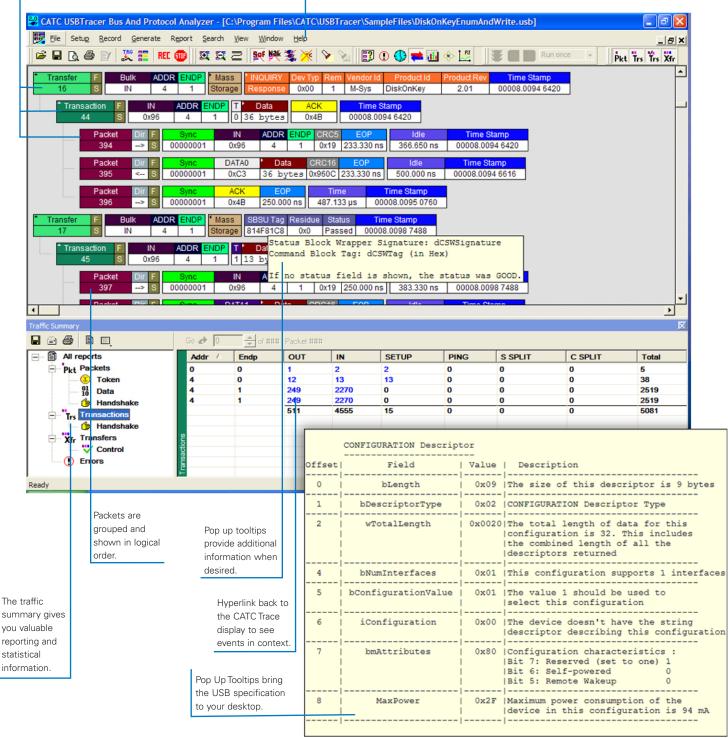
- Eliminate the idle bus traffic by selecting the SOF icon. This narrows down the displayed information to just those packets that contain relevant host and device communications.
- Simplify the trace by selectively hiding endpoints (addresses) In, Out, or all packets. This is especially useful when analyzing bus traffic when multiple devices are attached.
- Organize the information unique to each USB bus by utilizing the built-in device class decodes. This will greatly enhance your ability to comprehend the bus traffic.

Within the displays, Tooltips pop up to provide you with detailed descriptions of the field, including information about the USB specification. The software supports both vendor specific and custom decodes to ease the development of devices and software.





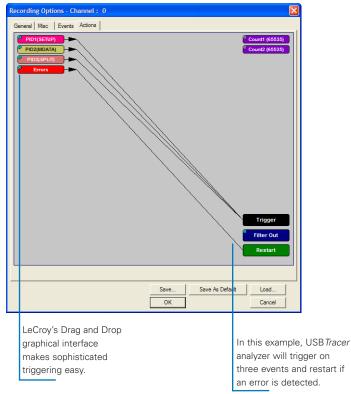
The CATC Trace display decodes the application layer and alerts you to every potential violation.



Powerful Triggering and Filtering

With a wide assortment of triggering options, the *Tracer* software makes it easier to detect software, driver, and firmware problems. You can trigger on a variety of conditions including various packet types, device requests, bus conditions, errors and many others. Triggers can be set up on almost any sequence of events possible. It also allows you to isolate the important part of the traffic stream, and when you open the trace, it jumps right to that portion of the trace.

Full featured filtering capabilities also help you maximize the memory recording capacity by isolating areas of interest and filtering out unwanted traffic. Both features provide for easier access to the valuable traffic for more in depth analysis.



| CATIC USBIT many flow And Protocol Analyzers | CAProgram Files (CATIC USBIT many) | CAPROGRAM | CAPR

through each occurrence within the trace.

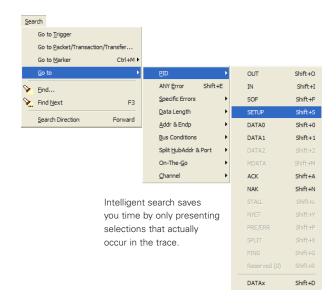
Comprehensive Traffic Reports and Summaries

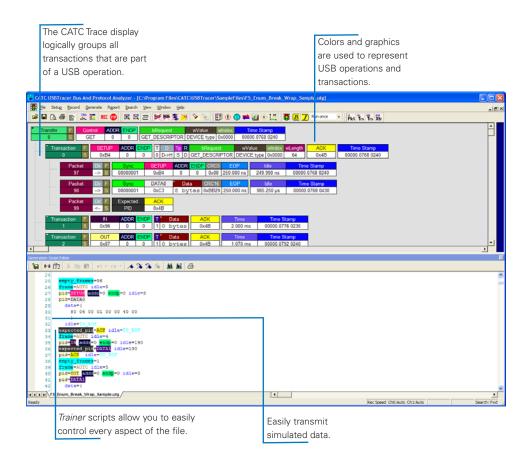
Our USB solutions are more than just data recorders. The real value is in the analysis of the data. The *Tracer* software generates detailed reports that provide statistics on the occurrence of errors, abnormal bus or timing conditions, and other protocol events within the trace. You can evaluate these metrics at a glance or use them to navigate through the recording since they are hyperlinked back into the CATC Trace. The traffic summary can be printed or saved to text with a single keystroke.



Search Results Quickly

The advanced search features in the *Tracer* software helps you quickly find what you points of interest. By using the Quick Search, you can select fields right from the drop down menu, such as Go To Trigger, Packet/Transaction/Transfer, Marker or Event. The menus are context sensitive so they only allow you to select events that occurred within the trace.





Intelligent Traffic Generation

When using USB Trainer or USB Chief Plus systems, you have the added value of traffic generation for USB. You can create test patterns or "scripts" by exporting any traffic stream from a previously recorded trace. A text based API can also be used to create packet level traffic files. The ability to insert code errors, or customized data payloads, makes it easy to perform cornercase, stress, and limit testing.

Unique to the USB *Trainer* is an Intelliframe mode, which adds interactivity to the traffic stream. It allows you to programmatically respond to packets transmitted from the device under test.

A Comprehensive Solution

LeCroy's USB solutions provide you with advanced features necessary to ease the development and testing of USB devices. Combined with powerful hardware, the *Tracer* software makes it

easy to understand what occurred on the bus. At every level, you have the ability to drill deeper into the data, to get additional information about the traffic or even the protocol itself. Let LeCroy's Serial Data Solutions peel back the layers of your USB device to solve your test and verification challenges.

Generating Memory Size 128M DRAM for traffic data capture, timing, and other data Windows 2000, Windows XP or greater, Intel Pentium II processor or greater; with a USB port Power Requirements 90-254 VAC, 47-63 Hz (universal input), 165W maximum Connectors AC Power Connection, BNC Connection (Reserved), Host Connection (USB, type B), Data Connection (Data In/Out, 37-USB Connections for recording (Secondary Record, Record & Generate, type A and type B)	ecifications	
Data Length, Spitis	Requirements	Windows 2000, Windows XP or greater, Intel Pentium II processor or greater; with a PCMCIA port
Reporting and Statistics Packet Level, Transaction Level, Transfer Level, Error Reports	Trigger Events	Packet Identifier, Token Pattern, Frame Pattern, Device Request, Data Pattern, Bus Conditions, Errors, Transactions,
Reporting and Statistics Generating Memory Size 64 MB Power Consumption Idle 500 mA (typical) , Active: 560 mA (typical) Ornectors 16-bit Type II PC card, 2 Mini-AB USB receptacles Tamperature: Operating 0 °C to 55 °C 622 °F to 131 °F) Tamperature: Non-Operating 10% to 90% (24.9° for 176 °F) Tamperature: Non-Operating 10% to 90% (24.9° for 176 °F) Tamperature: Non-Operating 10% to 90% (24.9° for 176 °F) Tamperature: Non-Operating Dimensions 5.3° x 2.1" x 0.4" (135 mm x 54 mm x 10.5 mm) Net Weight 51 g (1.8 oz.) USB Advisor Windows 2000, Windows XP or greater, Intel Pentium II processor or greater; with a USB port Generating Memory Size 128M DRAM for traffic capture, timing, and other data Power Consumption Generating Memory Size 128M DRAM for traffic capture, timing, and other data Power Consumption AC Power Connection, External Clock Input (EXT CLK, BNC), Host Connection (USB, type B), Data Connection (Data In/Out, 9-pin DB) Power On/Off Manual Triager Forces a trigger event Lights when analyzer is powered on Record (REC) Lights when analyzer is powered on Record (REC) Lights when analyzer is powered on Record (REC) Lights when analyzer is powered on Tamperature: Operating 0 °C to 55 °C (22 °F to 131 °F) Tamperature: Operating 0 °C to 55 °C (22 °F to 131 °F) Tamperature: Operating 0 °C to 55 °C (22 °F to 131 °F) Tamperature: Operating 0 °C to 55 °C (22 °F to 131 °F) Tamperature: Operating 10% to 90% to 90% (22 °F to 131 °F) Tamperature: Operating 10% to 90% (22 °F to 131 °F) Tamperature: Operating 10% to 90% (22 °F to 131 °F) Tamperature: Operating 10% to 90% (22 °F to 131 °F) Tamperature: Operating 10% to 90% (22 °F to 131 °F) Tamperature: Operating 10% to 90% (22 °F to 131 °F) Tamperature: Operating 10% to 90% (22 °F to 131 °F) Tamperature: Operating 10% to 90% (22 °F to 131 °F) Tamperature: Operating 10% to 90% (22 °F to 131 °F) Tamperature: Operating 10% to 90% (22 °F to 131 °F) Tamperature: Operating 10% to 90% (22 °F to 131 °F) Tampera		Data Length, Splits
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Connectors 16-bit Type II PC card, 2 Mini-AB USB receptacles		Idle: 500 mA (typical) , Active: 560 mA (typical)
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Emperature: Non-Operating		·· · · · · · · · · · · · · · · · · · ·
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Power On/Off Manual Trigger Forces a trigger event Detach Device Detaches the device from the host Power (PWR) Lights when analyzer is powered on Record (REC) Lights when analyzer is actively recording data Trigger (TRG) Lights when triggering an event or during power-on testing Upload (UPLD) Lights when uploading data to host Temperature: Operating 0°C to 55°C (32°F to 131°F) Temperature: Non-Operating 2°C to 80°C (4°F to 176°F) Humidity: Operating 10% to 90% RH (non-condensing) Dimensions 234 mm x 213 mm x 64 mm (9.2° x 8.4° x 2.5°) Net Weight 13 kg (2.8 lbs.) USB Chief & Chief Plus Basic Events Detected Bus Conditions, Token Packet, Setup Transaction, Data Pattern, Hardware Detected Error, Software-analyzed Error, Extern Generating Memory Size 128M DRAM for traffic data capture, timing, and other data Host Requirements Windows 2000, Windows XP or greater, Intel Pentium II processor or greater; with a USB port Power Requirements 90-254 VAC, 47-63 Hz (universal input), 165W maximum Connectors AP Ower Connection, BNC Connection (Reserved), Host Connection (USB, type B), Data Connection (Data In/Out, 37-USB Connections for recording (Secondary Record, Record & Generate, type A and type B)	actors	
Manual Trigger Forces a trigger event Detach Device Detaches the device from the host Power (PWR) Lights when analyzer is powered on Record (REC) Lights when analyzer is powered on Lights when analyzer is powered on Record (REG) Lights when triggering an event or during power-on testing Upload (UPLD) Lights when uploading data to host Temperature: Operating 0°C to 55°C (32°F to 131°F) Temperature: Non-Operating -20°C to 80°C (44°F to 176°F) Humidity: Operating 10% to 90% RH (non-condensing) Dimensions 234 mm x 213 mm x 64 mm (9.2* x 8.4* x 2.5*) Net Weight 13 kg (2.8 lbs.) USB Chief & Chief Plus Basic Events Detected Bus Conditions, Token Packet, Setup Transaction, Data Pattern, Hardware Detected Error, Software-analyzed Error, Extern Generating Memory Size 128M DRAM for traffic data capture, timing, and other data Host Requirements Windows 2000, Windows XP or greater, Intel Pentium II processor or greater; with a USB port Power Requirements 90-254 VAC, 47-63 Hz (universal input), 165W maximum Connectors AC Power Connection, BNC Connection (Reserved), Host Connection (USB, type B), Data Connection (Data In/Out, 37-USB Connections for recording (Secondary Record, Record & Generate, type A and type B)		
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USB Chief & Chief Plus Basic Events Detected Bus Conditions, Token Packet, Setup Transaction, Data Pattern, Hardware Detected Error, Software-analyzed Error, Extern Generating Memory Size 128M DRAM for traffic data capture, timing, and other data Host Requirements Windows 2000, Windows XP or greater, Intel Pentium II processor or greater; with a USB port Power Requirements 90-254 VAC, 47-63 Hz (universal input), 165W maximum Connectors AC Power Connection, BNC Connection (Reserved), Host Connection (USB, type B), Data Connection (Data In/Out, 37-USB Connections for recording (Secondary Record & Generate, type A and type B)		
Basic Events Detected Bus Conditions, Token Packet, Setup Transaction, Data Pattern, Hardware Detected Error, Software-analyzed Error, Extern Generating Memory Size 128M DRAM for traffic data capture, timing, and other data Host Requirements Windows 2000, Windows XP or greater, Intel Pentium II processor or greater; with a USB port Power Requirements 90-254 VAC, 47-63 Hz (universal input), 165W maximum Connectors AC Power Connection, BNC Connection (Reserved), Host Connection (USB, type B), Data Connection (Data In/Out, 37-USB Connections for recording (Secondary Record, Record & Generate, type A and type B)	Veight	1.3 kg (2.8 lbs.)
Generating Memory Size 128M DRAM for traffic data capture, timing, and other data Windows 2000, Windows XP or greater, Intel Pentium II processor or greater; with a USB port Power Requirements 90-254 VAC, 47-63 Hz (universal input), 165W maximum Connectors AC Power Connection, BNC Connection (Reserved), Host Connection (USB, type B), Data Connection (Data In/Out, 37-USB Connections for recording (Secondary Record, Record & Generate, type A and type B)	Chief & Chief Plus	
Host Requirements Windows 2000, Windows XP or greater, Intel Pentium II processor or greater; with a USB port Power Requirements 90-254 VAC, 47-63 Hz (universal input), 165W maximum Connectors AC Power Connection, BNC Connection (Reserved), Host Connection (USB, type B), Data Connection (Data In/Out, 37-USB Connections for recording (Secondary Record, Record & Generate, type A and type B)	Events Detected	Bus Conditions, Token Packet, Setup Transaction, Data Pattern, Hardware Detected Error, Software-analyzed Error, External Signals
Power Requirements 90-254 VAC, 47-63 Hz (universal input), 165W maximum Connectors AC Power Connection, BNC Connection (Reserved), Host Connection (USB, type B), Data Connection (Data In/Out, 37-USB Connections for recording (Secondary Record, Record & Generate, type A and type B)	rating Memory Size	128M DRAM for traffic data capture, timing, and other data
Connectors AC Power Connection, BNC Connection (Reserved), Host Connection (USB, type B), Data Connection (Data In/Out, 37-USB Connections for recording (Secondary Record, Record & Generate, type A and type B)	Requirements	Windows 2000, Windows XP or greater, Intel Pentium II processor or greater; with a USB port
USB Connections for recording (Secondary Record & Generate, type A and type B)	r Requirements	90-254 VAC, 47-63 Hz (universal input), 165W maximum
	ectors	AC Power Connection, BNC Connection (Reserved), Host Connection (USB, type B), Data Connection (Data In/Out, 37-pin DB),
Power On/Off		
Manual Trigger Forces a trigger event		
Detach Device Detaches the device from the host		
Power (PWR) Lights when powered on		
Record (REC) Lights when actively recording data		
Trigger (TRG) Lights when triggering an event		
Upload (UPLD) Lights when uploading recording memory to the host		
Temperature: Operating 0 °C to 55 °C (32 °F to 131 °F)		
Temperature: Non-Operating -20 °C to 80 °C (4 °F to 176 °F)		
Humidity: Operating 10% to 90% RH (non-condensing)		5
Dimensions 234 mm x 213 mm x 64 mm (9.2" x 8.4" x 2.5")		
Net Weight 1.3 kg (2.9 lbs.)	Veight	1.3 kg (2.9 lbs.)



Specifications	
CATC 2500H PLATFORM	
USB Tracer/Trainer	
Host Requirements	Windows 2000, or greater, Intel Pentium II processor or greater; USB port
Recording Memory Size	512 MB for trace capture, timing and control information
Power Requirements	90-254 VAC, 47-63 Hz (universal input), 125W maximum
Connectors	AC power connection, External trigger connection (TRIG IN/OUT, BNC), USB type "B" host computer connection,
	Breakout Board Data Output Connection (RS232)
Power (PWR)	Lights when power is on
Status (STATUS)	Lights during initialization; Blinks if self-test fails
Manual Trigger Switch	Forces a trigger event when pressed
Dimensions	311 mm x 311 mm x 89 mm (12.2" x 12.2" x 3.5")
Net Weight	3.4 kg (7.5 lbs.)
Temperature: Operating	0 °C to 55 °C (32 °F to 131 °F)
Temperature: Non-Operating	-20 °C to 80 °C (-4 °F to 176 °F)
Humidity: Operating	10% to 90% RH (non-condensing)
USB <i>Tracer</i> Plug In Module Connectors	Dual Recording Channels (USB, types "A" and "B")
Basic Trigger Events	Packet Identifiers, Token Patterns, Frame Patterns, Device Request, Data Pattern, Bus Conditions, Errors, Transactions, Splits
Reporting/Statistics	Packet Level, Transaction Level, Transfer Level, Error Reports
REC (green)	Lights when unit is recording
TRG (orange)	Lights when triggering an event or power-on testing
UPLD (green)	Lights when uploading recording memory to the PC
Dimensions	113 mm x 170 mm x 32 mm (4.5" x 6.7" x 1.3")
Net Weight	0.5 kg (1.0 lb.)
140t 440igitt	6.6 kg (1.6 ib.)
USB <i>Trainer</i> Plug In Module	
Generating Memory Size	256 Mbytes for trace traffic pattern buffering
Connectors	Dual Generating Channels (USB, type "A")
Switches	Start/Stop allows for manual Trace capture
HighSpeed (green)	Lights when hi-speed is being generated
Classic (orange)	Lights when full or low speed is being generated
Intelli Frame (green)	Lights when Intelliframe traffic is being generated
Dimensions	113 mm x 170 mm x 32 mm (4.5* x 6.7* x 1.3*)
Net Weight	0.5 kg (1.0 lb.)
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Ordering Information

LeCroy USB Solutions	
USB Tracer/Trainer All Speed Analyzer/Generator System	US005APB-X
USB Tracer All Speed Analyzer System	US005AAB-X
USB Tracer All Speed Analyzer CATC Platform Module with OTG	US006MAA-X
USB Tracer/Trainer Classic Analyzer/Generator System	US006APA-X
USB <i>Tracer</i> Classic Analyzer System	US006AAA-X
USB Trainer Generator CATC Platform Module with Device Emulation	US006MGA-X
USB Trainer Generator CATC Platform Module	US006MGB-X
USB Mobile HS USB 2.0 All Speed Protocol Analyzer	US008UAA-X
USB Advisor All Speed Analyzer	US004UAA-X
USB Chief Plus Classic Analyzer/Generator	US003UPA-X
USB Chief Classic Analyzer	US003UAA-X
USB Parametric Probe	US006UTA-X

