

LeCroy USB Systems Comparison Chart



	Voyager M3 Pro with Exerciser	Voyager M3 Pro	USBTracer/Trainer	USBTracer	USB Advisor	USBMobile HS
Specifications Supported						
USB 3.0 / SuperSpeed	✓	✓				
USB2.0 / USB 1.1	✓	✓	✓	✓	✓	✓
USB OTG	✓	✓	✓	✓		✓
High, Full and Low Speed Recording	✓	✓	✓	✓	✓	✓
Generating Bus Traffic						
USB 3.0 Traffic Generation	✓					
USB 2.0 Traffic Generation	✓		✓			
Record Self-Generated Traffic	✓		✓			
USB 2.0 Intelliframe (Intelligent Framing)	✓		✓			
USB 2.0 BitStream Mode	✓		✓			
USB 3.0 Host / Device Emulation (non-OTG)	✓					
USB 2.0 Host / Device Emulation (non-OTG)	✓		✓			
Export Traces to Generator script	✓		✓			
USB 3.0 Slow-clock & External Clock Option	✓(2)	✓(2)				
USB 2.0 Slow-clock Option	✓(2)		✓(2,3)			
Recording Bus Traffic						
Real Time Capture Filtering	✓	✓	✓	✓	✓	✓
Snap-Shot Recording	✓	✓	✓	✓	✓	✓
Event Triggered Recording	✓	✓	✓	✓	✓	✓
Externally Triggered Recording	✓	✓	✓	✓	✓	
Auto-Detect 2.0 Speed (HS,FS,LS)	✓	✓	✓	✓	✓	
Reset Signal	✓	✓	✓	✓	✓	✓
Record Chirp Signal	✓	✓	✓	✓	✓(5)	✓(5)
Event Counting	✓	✓	✓	✓	✓	✓
Maximum Event Sequencing	14	14	7	7	7	7
Auto-Detect 2.0 Speed (HS,FS,LS)	✓	✓	✓	✓		✓
Auto-detect 3.0 SuperSpeed Link & Speed	✓	✓				
Capture LFPS signals	✓	✓				
Capture Link Training State Transitions	✓	✓				
Capture Link Management packets	✓	✓				
OTG (On-The-Go) Support						
HNP & SRP (Host Negotiation & Session Request Protocol)	✓	✓	✓	✓		✓
OTG VBus Pulsing Capture	✓	✓	✓	✓		✓
Filter During Recording						
Transactions	✓	✓	✓	✓	✓	✓
Transactions by Address	✓	✓	✓	✓	✓	✓
SOFs, PIDs, ACK, NAK, NYET	✓	✓	✓	✓	✓	✓
Data Payload Truncation	✓(6)	✓(6)	✓	✓	✓	✓
SuperSpeed SKPs, TS1, TS2, LFPS, Idles	✓	✓				
Displaying Traffic						
Max Timing Resolution	2 ns	2 ns	16.66ns	16.66ns	16.66ns	16.66ns
View Transactions	✓	✓	✓	✓	✓	✓
View Split Transactions	✓	✓	✓	✓	✓	✓
View USB Transfers	✓	✓	✓	✓	✓	✓
USB 2.0 Error Alerts	✓	✓	✓	✓	✓	✓
USB 3.0 Error Alerts	✓	✓				
VID & PID Decode	✓	✓	✓	✓	✓	✓
Add Comments and Markers	✓	✓	✓	✓	✓	✓
User Defined (script-based) Decoding	✓	✓	✓	✓	✓	✓
Bus Utilization Graphs	✓	✓	✓	✓	✓	✓
Spec View	✓	✓				
Single Click Timing Calculator	✓	✓				
Real Time Statistics	✓(6)	✓(6)	✓	✓	✓	✓
Device Class Decodes						
PTP, MTP Class Decoding Extension, Pict Bridge, Hub support, HID (Human Interface Device), Monitor (HID extension), Physical Interface (force-feedback extension to HID), Power(HID extension), HUT(HID), Smart Card (CCID), CCID, ICCD, Communications and CDC Control, Direct Line Control Model, Abstract Control Model, Telephone Control Model, Multi-Channel Control Model, CAPI Control Model, Ethernet Networking Control Model, ATM Networking Control Model, Wireless Handset Control Model, Device Management Model, Mobile Direct Line Model, OBEX Model, Communication Device Subclass / EEM, CDC (Communications Device Class) - Data, Physical, Printer, Mass Storage, SCSI/Bulk, UFI(Floppy)/CBI, UWB, Host Wire Adapter, Device Wire Adapter, Interface Association Descriptor, Wire Adapter Multifunction Peripheral programming interface, Cable Based Association Framework, IrDA, ATAPI, HTTP, IP, Personal Healthcare, Content Security, Video Class decoding 1.1, Audio 2.0, Point of sale Devices (HID extension), Remote NDIS, IrDA Bridge	✓	✓	✓	✓	✓	✓
USB 3.0 headers & transactions	✓	✓				
USB 3.0 hub transfers	✓	✓				
Get Descriptor Codes						

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Display Format	✓	✓	✓	✓	✓	✓
String Index	✓	✓	✓	✓	✓	✓
Viewing Bus Traffic						
Transaction View (Expanded/Collapsed)	✓	✓	✓	✓	✓	✓
Transfer View (Expanded/Collapsed)	✓	✓	✓	✓	✓	✓
View Raw Packet (Bit Stream)	✓	✓	✓	✓	✓	✓
Timing calculator	✓	✓	✓	✓	✓	✓
Tool Tips explain protocol	✓	✓	✓	✓	✓	✓
Zero-Time Search™	✓	✓	✓	✓	✓	✓
Boolean Search Capability	✓	✓	✓	✓	✓	✓
Export to Text/CSV, Binary, by Endpoint, Data payload	✓(6)	✓(6)	✓	✓	✓	✓
Data View	✓	✓				
Link Tracker (SuperSpeed only)	✓	✓				
Physical Components						
Dual Low/Full Speed Recording Channels			✓	✓	✓	
Dual High-speed Recording Channels (hub testing)			✓	✓		
Cascade analyzers for dual Ch recording (hub testing)	✓(6)	✓(6)				
Access to Device Current					✓	
Access to D+/D- Signals	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	
Inrush Current Measurement	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	
Startup Current measurement	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Active Current measurement	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Suspend Current measurement	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Voltage Drop	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Voltage Droop	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Breakout Board			✓	✓		
Connection to Host PC	High-Speed USB / GbE	High-Speed USB / GbE	High-Speed USB	High-Speed USB	Full Speed USB	PCMCIA card
Memory Size	4GB	4GB	512 MB	512 MB	128MB	64 MB
Tapping scheme: Non-intrusive	✓	✓	✓	✓	✓	✓
General						
COM Automation Capability	✓	✓	✓	✓	✓	✓
Operating Systems	Win2000, WinXP, Vista	Win2000, WinXP, Vista	Win2000, WinXP, Vista	Win2000, WinXP, Vista	Win2000, WinXP, Vista	Win2000, WinXP, Vista
Size	12.2" x 11.5" x 2"	12.2" x 11.5" x 2"	12.2" x 14.2" x 3.5"	12.2" x 14.2" x 3.5"	9.2" x 8.4" x 2.5"	2" x 4.5"
Weight	<4 lbs	<4 lbs	<8 lbs	<4 lbs	<1 lbs	<1 lbs
Power Supply	Internal AC	Internal AC	Internal AC	Internal AC	Internal AC	PCMCIA
Customer Support	Hotline 800 Number	Hotline 800 Number	Hotline 800 Number	Hotline 800 Number	Hotline 800 Number	Hotline 800 Number
Warranty	3 Year	3 Year	3 Year	3 Year	3 Year	3 Year

- (1) Full Speed / Low Speed Only
- (2) Extra Cost Option
- (3) Host Emulation -- Intelliframe Only
- (4) Through Breakout Board
- (5) Parametric Probe Option
- (6) Q4-08