


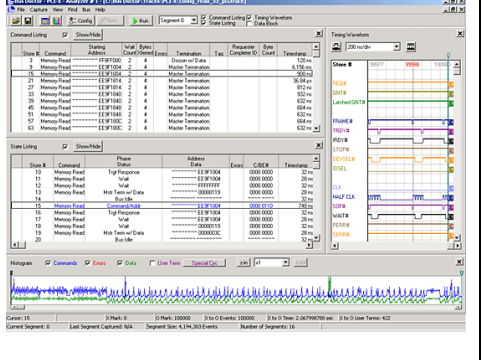
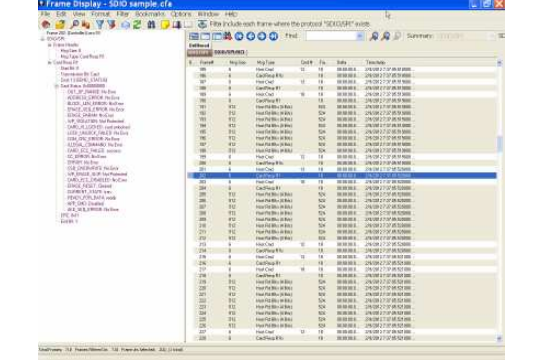


	<u>JDSU Bus Doctor</u>	<u>Frontline ComProbe</u>
Price Range	\$30,000.00	\$6,000.00 - \$8,000.00
Hardware		
Hardware Included	RX-108P w/ 256M event buffer  (Laptop not included) DR-MC-1000 SDIO/MMC Pod  (SD and µSD tap not shown)	
Host interface	HS USB	HS USB
Trace Buffer Size	256 million events (~30min – 2hr in state mode depending on SD CLK frequency)	N/A (Limited by host PC available storage)
Protocol Support	SPI/SD/SDIO/MMC/CE-ATA	SPI/SD/SDIO/MMC/Bluetooth over SDIO
SD compliance	V2.0 (SDHC+SDXC)	V2.0 (SDHC+SDXC)
MicroSD adapter	Yes	Yes
Bus Width	1/4/8 bit	1/4 bit
Max SDIO CLK	52 MHz	50 MHz
External HW trigger	BNC in/out	None
Bus Triggering	By CMD type + CMD field value By bus line states	None (you can only start/stop recording manually)
Timing resolution	4 ns	1 ms
Capture modes	Timing & State	State only
Backwards Compatibility with Bus Doctor taps	Supports all legacy PCMCIA, CompactFlash, USB, etc taps that you currently own.	N/A
Extensibility	ATA/ATAPI, SCSI, SATA, CardBus, Logic Analysis, PCI/X with additional ~\$100 cost	Ethernet, Bluetooth, WiFi with additional \$10,000 cost
Support Contract	1 yr HW/SW	No formal contract
Software		
Software Included	Bus Doctor CE v5.5	Virtual Sniffer + Frame Display v12.1.22.1

GUI Screenshot		
Waveform Display (similar to logic analyzer)	<p style="text-align: center;">Yes</p>	<p style="text-align: center;">No</p>
Filter Captured Trace	<p style="text-align: center;">By CMD type only</p>	<p style="text-align: center;">By CMD type and CMD field value</p>
Find within captured trace	<p style="text-align: center;">By CMD and CMD field value</p>	<p style="text-align: center;">By hex value only</p>
Error Detection	<p style="text-align: center;">Yes</p>	<p style="text-align: center;">Yes</p>
Traffic Metrics	<p style="text-align: center;">Yes</p>	<p style="text-align: center;">Yes</p>
Histogram display	<p style="text-align: center;">Yes</p>	<p style="text-align: center;">No</p>
Real-time Stats Display	<p style="text-align: center;">Read/Write/CMD/Data per second (graphical VU meter)</p>	<p style="text-align: center;">Host/Controller utilization percentage (text display)</p>
Custom Statistics	<p style="text-align: center;">Yes</p>	<p style="text-align: center;">No</p>
Load/Save Capture Configuration	<p style="text-align: center;">Yes</p>	<p style="text-align: center;">No</p>
Export to file	<p style="text-align: center;">Proprietary trace file CMD to TXT file Data to TXT/HTML/CSV/BIN file Custom statistics to TXT file</p>	<p style="text-align: center;">Proprietary trace file CMD or CMD + Data to HTML file CMD to CSV file</p>
Free viewer software	<p style="text-align: center;">Yes</p>	<p style="text-align: center;">Yes</p>

Summary:

The Bus Doctor is the ideal solution if you can afford it. It even supports all the legacy Bus Doctor taps you currently own. If you can't afford the Bus Doctor, I'd say that the ComProbe would get the job done, just not as easily. It lacks in terms of real-time bus statistics, the software GUI, and ability to look directly at the timing of the bus lines.