

Specifications (continued)

HP 16500B Mainframe with 16532A	HP 1660-series with built-in scope	HP 54700 System with Plug-Ins ¹						HP 54121T/HP 54122T/HP 54123T/HP 54124T	HP 54750A	
		HP 54711A	HP 54712A	HP 54713B	HP 54714A	HP 54721A	HP 54722A			
250 MHz		2.0 GHz 54710D/20D 1.5 GHz 54710A/20A	1.1 GHz	500 MHz	400 MHz	1.1 GHz	2.0 GHz 54720D 1.5 GHz 54720A	20 GHz/12.4 GHz/ 34 GHz/50 GHz	20 GHz/12.4 GHz	
250 MHz		N/A	N/A	500 MHz	400 MHz	1.1 GHz	2.0 GHz 54720D 1.5 GHz 54720A	N/A	N/A	
± 150 ps		± 30 ps						± 30 ps	± 5 ps	
± 150 ps		N/A		± 100 ps	± 100 ps	± 50 ps	± 50 ps	NA	± 5 ps N/A	
2 to 20	2	HP 54710 2 ² HP 54720 4 ²			HP 54710 4 ² HP 54720 8 ²	HP 54710 1 ¹ HP 54720 2 ²	1	4	2 or 4	
1 GSa/s		2 GSa/s			2 GSa/s	4 GSa/s	8 GSa/s	N/A	N/A	
8K samples		A frame 16K samples D frame 64K			A frame 8K D frame 32K	A frame 32K D frame 64K	A frame 64K D frame 256K	1K samples	4K samples	
8 bits		8 bits, 12 bits with averaging						8 bits, 12 bits with averaging	12 bits, 14 bits with averaging	11 bits, 15 bits with averaging ³
4 mV/div to 10V/div		2 mV/div to 1 V/div	1 mV/div to 1 V/div	1 mV/div to 5 V/div	2 mV/div to 5 V/div	1 mV/div to 1 V/div	8 mV/div to 4 V/div	1 to 80 mV/div ³	1 to 100 mV/div	
1 MΩ: ac, dc 50 Ω dc only		50 Ω, dc	50 Ω, dc, ac	50 Ω, 1 MΩ, dc, ac	50 Ω, dc, ac, 1 MΩ	50 Ω, dc, ac		50 Ω	50 Ω	
Yes										
A + B, A - B		+, -, ×, A vs. B, integrate, differentiate, min, max, magnify, invert, FFT, histogram						A + B, A - B, A vs. B, min, max, invert, only	+, -, ×, A vs. B, integrate, differentiate, min, max, magnify, invert, FFT, histogram	
Infinite persistence, averaging		Variable and infinite persistence, averaging, digital BW limit, interpolation, color graded display						Variable and infinite persistence, averaging	Variable and infinite persistence, averaging, digital BW limit, color graded display	
Built-in floppy disk and 86 MB hard disk drive	Built-in floppy disk	1 pixel, 4 waveform, and floppy disk						2 pixel, 4 waveform	1 pixel, 4 waveform, and floppy disk	
Edge, pattern, time qualified pattern, delay by event, immediate, trigger from built-in logic analyzer		Edge, pattern, state, time-qualified pattern, glitch, delay by time or events						2.5-GHz edge trigger, 18 GHz with HP 54118A		
HP printers; 2 built-in hard and floppy disk drives	HP printers, built-in floppy disk drive	HP printers, Epson printers, built-in 3 1/2-inch flexible disk and HP-IB & Centronics interfaces						HP graphic printers and plotters	HP printers, Epson printers, built-in 3 1/2-inch flexible disk, and HP-IB and Centronics interfaces	
Time correlated logic analyzer/ scope cross-triggering and display		Color display, color hard-copy, measurement statistics, pan and zoom						Built-in histograms, TDR/TDT ⁴ , color display, and color hard copy	Built-in eye diagram parametric measurements	
HP 5091-6608E and HP 5091-6894E	HP 5091-7554E and HP 5091-6147E	HP 5091-6979 E HP 5091-6611 E						HP 5952-7084D and HP 5952-1171D	HP 5962-0097E	

¹ Price is for fully loaded mainframe, excluding HP 54710A trigger slots

² One channel per plug-in. The number shown is the maximum configuration using that plug-in in the mainframe indicated.

³ 1 mV to 2.4 V per division for HP 54122T

⁴ No TDR/TDT in HP 54122T

⁵ Price includes HP 16500B mainframe and depends on number of HP 16532A cards desired.

⁶ Maintained over all ranges; ≥ 9 bits @ all sensitivities

