

HP Model #	54200A/D	54201A/D	54100A/D & 54110D	54111D	54112D
Bandwidth -Repetitive -Single-shot	50 MHz 50 MHz	300 MHz 50 MHz	1 GHz 4 MHz**	500 MHz 250 MHz	100 MHz 100 MHz
Time (rep) Interval (s-s) Accuracy	N/A 2 ns	200ps 2 ns	100 ps 300 ps	100 ps 300 ps	300 ps 300 ps
Channels	2	2	2	2	4
Digitizing Rate	200Msa/s	200Msa/s	40 Msa/s	1 Gsa/s	400Msa/s
Memory/Channel	1k sa	1k sa	1k sa	8k sa	64k sa
Vertical Resolution	6 bits, 8 with avg	6 bits, 8 with avg	7 bits, 10 with avg	8 bits to 25 MHz 7 bits to 100MHz 6 bits to 500 MHz	6 bits
Input Voltage Ranges	Cont. Var. 40mV-40V full scale	Cont. Var. 40mV-16V full scale	7 ranges 80mV-8V full scale	Cont. Var 8mV-40V full scale	Cont. Var 40mV-40V full scale
Input Coupling	1 M [^] /ac,dc	1M, 50, ac,dc internal	50,10K 1M pods	ac,dc, 50 ,1M internal	ac,dc, 50 ,1M internal
Effective Bits	—	—	—	—	—
Pulse Parameter Measurements	yes	yes	yes	yes	yes
Waveform Math	—	A+B, A-B,	A+B, A-B AvsB, Invert	A+B, A-B Invert	A+B, A-B Invert
Other Analysis Functions	Accumulate, Envelope, Averaging	Accumulate, Envelope, Averaging	Infinite Pers. Avg., Magnify	Infinite Pers. Avg.	Infinite Pers. Avg.
Waveform Storage	4 Waveforms	4 Waveforms	2 Pixel, 4 Waveform	2 Pixel 4 Repet. Wft 4 SS Wft	2 Pixel 4 Repet Wft 4 SS Wft
Trigger Enhancements	* 27 bit state Trigger, Missing/ Bit, Digital Delay	* 27Bit state Trigger, Missing/Extra bit, Digital Delay	* Edge, Pattern State, Digital Delay by Event and Time, Time Qualified Pattern	Edge, Pattern State, Digital Delay by Event and Time, Time Qualified Pattern	Edge, Pattern State, Digital Delay by Event and Time Time Qualified
Timebase Enhancements					
Instant Hardcopy & Disc Support	HP Printers HP Plotters				
Other	—	—	Color Display	Color Display	Color Display