












Keysight Pulse Pattern Generators – Selection Guide

10 MHz – 80 MHz		Frequency	120 MHz	165 MHz	330 MHz	330 MHz	400 MHz	660 MHz	3.35 GHz	3.125 Gb/s – 40 Gb/s		
	33210A 10 MHz	Mainframe model + interface, resp. 1 or 2 channels	81150A (001/002)	81110A + 81111A	81110A + 81112A	81160A (001/002)	81130A + 81131A	81130A + 81132A	81133A (81134A)		N5980A Serial, 3.125 Gb/s economy, series	
		US price (DDP) – starting at valid January 1st 2013	\$ 10,937	\$ 17,945	\$ 17,945	\$ 18,217	\$ 24,304	\$ 25,761	\$ 60,044		N4962A Serial, 12.5 Gb/s economy series	
	33511B 20 MHz	Number of channels	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2		N4906B Serial, 3.6 and 12.5 Gb/s	
		Amplitude (Vpp/50 Ohm)	50mV-10V	100mV-10V	100mV-3.8V	50mV-5V	100mV-3.8V	100mV-2.5V	50mV-2V		N4965A Multi-Channel, 12.5 Gb/s	
		Transition time (10/90)	2.5ns-1000s	2ns-200s	0.8ns or 1.6ns	1ns-1000s	0.8ns or 1.6ns	550ps typ.	< 90ps			
		Differential out	Yes		Yes	Yes	Yes	Yes	Yes			
		Triggerable	Yes				Limited		Limited			
		PRBS (2n-1)	n = 7...31	n = 7...14	n = 7...14	n = 7...31	n = 7...15	n = 7...15	n = 5...31		81250A Multi-Channel, 675 Mb/s and 3.35, 7, 13.5 Gb/s	
		Pattern memory	Arb: 512kpts Pat: 16MBit	16 kBit/Ch		Arb: 256kpts Pat: 4MBit	64 kBit/Ch		12 Mbit/Ch			
		Segm. looping	1 inner, 1 outer loop			1 inner, 1 outer loop	1 inner, 1 outer loop				N4903B Serial, 7, 12.5 and 14.2 Gb/s	
		Jitter injection	Modulation			Modulation			Delay Ctrl Input			
		LVDS levels	Yes		Yes	Yes	Yes		Yes, Predefined		N4876A, N4877A Mux, Demux/CDR, 28.4Gb/s	
		Remote control interf.	GP-IB, LAN, USB	GP-IB (IEEE 488.2)		GP-IB, LAN, USB	GP-IB (IEEE 488.2)		GP-IB, LAN			
		Remote programming (Integration info)	SCPI 1992.0, IVI-COM, NI LabView, Matlab, Ag Wavef. Builder Pro	SCPI 1992.0, NI LabView		SCPI 1997.0, IVI-COM, NI LabView, Matlab, Ag. Wavef. Builder Pro	SCPI 1992.0,		SCPI 1992.0, IVI-COM, NI LabView		N4960A Serial, 17 and 32 Gb/s	
		Notes	Pulse-, Pattern-, Fct-, Arb- Gen., Noise Source #PAT		Compl. Multi-Ch. PatternGen ParBERT 81250A Series	Pulse-, Pattern-, Fct-, Arb- Gen, Noise Source #330, #660	Compl. Multi-Channel Pattern Generator: ParBERT 81250A Series				N4967A Serial, 40 Gb/s	
			Internal Channel-Add			Internal Channel-Add	Internal Channel-Add					



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