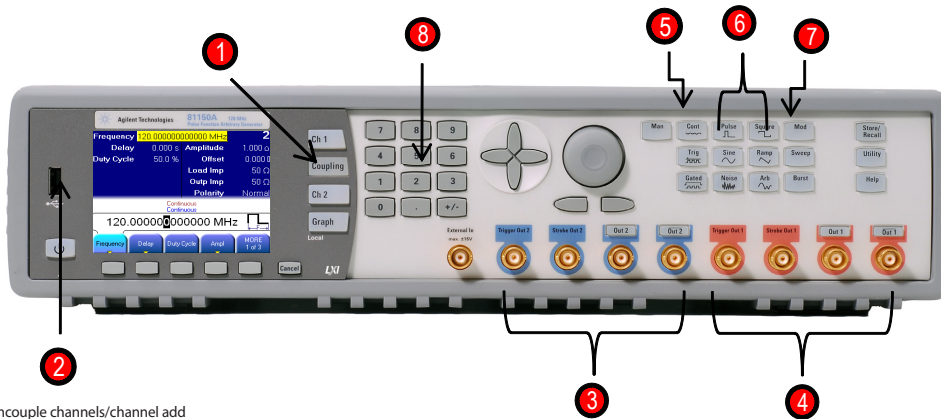


Quick Fact Sheet

Agilent 81150A Pulse Function Arbitrary Noise Generator

Triple versatility, optimum signal fidelity - from anywhere at any time



1. Couple/uncouple channels/channel add
2. USB 2.0A
3. Channel 2: trigger out; Strobe out; Differential output
4. Channel 1: trigger out; Strobe out; Differential output
5. Trigger mode
6. Waveform Mode
7. Advanced mode (Modulation/Sweep/Bust)
8. Keypad

Choose your hardware

Code	Description	Price
#001	81150A with 1 Channel	Call
#002	81150A with 2 Channels	Call
#DOC	Printed Documentation	Call
#1CP	Rack Mount Kit	Call
#1A6	Z 540 Calibration Documents	Call
#1A7	ISO 17025 Calibration Documents	Call
#PAT	Pattern Generator License	Call

A 3-in-1 device for accelerated and accurate insight into your device

- Create pulse, sine, square, ramp, noise and arbitrary waveforms to test your device - not the source
- A 2 Channel version can be used either as 2 independent generators or as time synchronized coupled or added
- Integrated in one instrument, which increases signal performance, minimizes cabling, space and test time
- Glitch free change of timing parameters (delay, frequency, transition time, width, delay cycle).
- Programming language compatible with Agilent 81101A, 81104A and 81110A

Standard, complete connectivity!
LXI Class C compliant

Key specifications

Bandwidth	1 μ Hz - 120MHz (250 sine)
Waveforms	Noise, adjustable crest factor, sine, pulse, square, vamp, arbitrary waveform
Channels	1 or 2, differential outputs
Output Amplitude Amplifier	
High voltage:	50mV to +10V
High bandwidth:	50mV to +5V
Modulation types:	AM, FM, PM, FSK, PWM external and internal
Transition Times	>2.5ns
Output Impedance	50 Ω /5 Ω selectable
Sample rate	14-bit, 2G/s arbitrary waveform
Memory	Arbitrary: 512k points per channel Pattern: 16Mbit per channel
Noise repetition rate	26 days
Display	Color, bright
Programming interfaces:	LAN, SCPI 1992, IEEE 488.2 (GPIB), USB
Supported drivers	Agilent VEE, IVI-COM, NI Labview, Matlab ®

 **Agilent Technologies**
Authorized Distributor

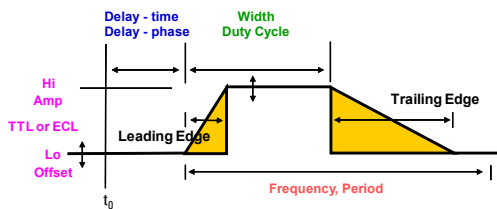
Pulse Pattern Generator Selection Guide

Model	Bandwidth	Channels	Voltage	Price
8114A	15MHz	1-ch	100V/2A	Call
81101A	50MHz	1-ch	100mV - 10V	Call
81104A + 81105A	80MHz	1 or 2 ch	100mV - 10V	Call
81110A + 81111A	165MHz	1 or 2 ch	100mV - 10V	Call
81110A + 81112A	330MHz	1 or 2 ch	100mV - 3.8V	Call
81130A + 81131A	400MHz	1 or 2 ch	100mV - 3.8V	Call
81130A + 81132A	660MHz	1 or 2 ch	100mV - 2.5V	Call

Complementary products

Model	Description
DSO/MSO 6000, 7000	InfiniiVision 7000 Series Oscilloscopes up to 1GHz bandwidth
DSO/MSO 8604A	Infinium DSO/MSO Oscilloscope with 800MHz bandwidth
DSO/MSO 5000	InfiniiVision 5000 Series Oscilloscopes up to 500MHz bandwidth
DSO 3000	Economy DSO 3000 Series up to 200MHz bandwidth
32210A, 33220A, 33250A	Function generators with 10, 20 and 80MHz, 1 channel

Characteristics on a Pulse Pattern Shape



Typical Applications

FlexRay/CAN Physical Layer Receiver Test (Flyer: 5990-3160EN)
Sensor Simulation
Clock Signal Generation
Radar Distance Testing
Disc Drive Tests
Noise and Jitter Source with Selectable Crest Factor
Signal Source with Modulation
Pulsed IV Measurements
System Trigger Source
Capture & Reproduce Live Signals

LXI is the LAN-based successor to GPIB, providing faster, more efficient connectivity. Agilent is a founding member of the LXI consortium.

www.lxistandard.org



Related Literature

Pub Number	Name
5989-6433EN	81150A Pulse Function Arbitrary Noise Generator Data Sheet
5980-0489E	Pulse Pattern and Data Generators For Digital and Analog Testing
5989-7860EN	Agilent 81150A Pulse Function Arbitrary Noise Generator Applications
5990-3233EN	PCI Express® Revision 2.0 Receiver Testing with J-BERT N4903A and 81150A Pulse Function Arbitrary Noise Generator
5989-9826EN	Agilent 15431A Filter Set for 81150A
5989-9364EN	Agilent 81150A Precision Digital Noise

MATLAB is a U.S. registered trademark of the Math Works, Inc.

PCI Express is a registered trademark of PCI-SIG.

All parameters can be selected and edited with the Agilent Pulse Pattern Generators

Technical data and pricing subject to change without notice.

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