

Keysight Technologies

InfiniiVision X-Series Oscilloscope Family



Key specifications	InfiniiVision 2000A X-Series	InfiniiVision 3000T X-Series	InfiniiVision 4000A X-Series	InfiniiVision 6000A X-Series
Bandwidth	70/100/200 MHz	100/200/350/500 MHz, 1.0 GHz	200/350/500 MHz, 1.0/1.5 GHz	1/2.5/4/6 GHz
Sampling rate	2 GSa/s	5 GSa/s	5 GSa/s	20 GSa/s
Channels				
– Analog	2 or 4	2 or 4	2 or 4	2 or 4
– Digital	8	16	16	16
Memory	100 kpt standard	4 Mpts standard	4 Mpts standard	4 Mpts standard
– Option	1 Mpts option			
– Segmented memory	Option	Standard	Standard	Standard
Waveform update rate	50,000	1,000,000	1,000,000	500,000
Display size	8.5 inch	8.5 inch	12.1 inch	12.1 inch
Capacitive touch screen	Not available	Standard	Standard	Standard, Multi-touch
Hardware zone trigger	Not available	Standard	Standard	Standard
Advanced math	Not available	Standard	Standard	Standard
AutoProbe interface	Not available	Standard, 2 active probes	Standard, 4 active probes	Standard, 4 active probes
Application bundle option	DSOX2APPBNDL	DSOX3APPBNDL	DSOX4APPBNDL	DSOX6APPBNDL

Serial protocol trigger and decode	2000A-X	3000T-X	4000A-X	6000A-X
Aerospace and defense (MIL-STD 1553/ARINC 429)		X	X	X
Audio (I ² S)		X	X	X
Automotive	X	X	X	X
– CAN	X	X	X	X
– LIN	X	X	X	X
– CAN-dbc		X	X	X
– CAN-FD		X	X	X
– CXPI		X	X	
Computer (RS232/UART)	X	X	X	X
Embedded (I ² C, SPI)	X	X	X	X
FlexRay		X	X	X
Single edge nibble transmission (SENT)		X	X	X
USB 2.0			X	X
Low/Full speed			X	X
Hi-speed			X	X
Measurement applications				
Enhanced video/TV application package		X	X	X
FPGA dynamic probe option for Xilinx			X	X
Jitter and real time eye analysis				X
Integrated 3-digit DVM/5 digit counter	X	X	X	X
Integrated 8-digit precision counter		X		
Integrated 10-digit precision counter				X
Mask limit testing	X	X	X	X
Power analysis application		X	X	X
USB 2.0 signal quality analysis			X	X
Near field communication testing		X	X	
WaveGen 20 MHz function generator	X	X	X	X
– AWG		X	X	X
– Dual channel			X	X
Productivity tools				
Education and training kit	X	X	X	X
N8900A Infiniium Offline oscilloscope analysis software	X	X	X	X
BenchVue	X	X	X	X
Oscilloscope spectrum visualizer (OSV)	X	X	X	X
Software application bundle	X	X	X	X

Standard and recommended optional probes	2000A-X	3000T-X	4000A-X	6000A-X
Standard passive probe	Varies	N2843A (500 MHz)	N2894A (700 MHz)	N2894A (700 MHz)
8 digital channel MSO cable	MSO models			
16 digital channel MSO cable		MSO models	MSO models	MSO models
Passive probe 35 MHz, 1:1, 1 MW	Recommended	Recommended	Recommended	Recommended
Passive probe 350 MHz, 10:1/1:1 switchable attenuation	Recommended	Recommended	Recommended	Recommended
Passive probe 250 MHz 100:1 attenuation (4 kV)	Recommended	Recommended	Recommended	Recommended
Active single-ended probe 1 GHz 1 pF 1 MΩ with AutoProbe		Recommended	Recommended	Recommended
Active single-ended probe 1.5 GHz extreme temperature		Recommended	Recommended	Recommended
InfiniiMode differential probe 1.5 GHz 700 fF 200 kΩ with AutoProbe		Recommended	Recommended	Recommended
Differential active probe 100 MHz, ± 1.4 kV with AutoProbe		Recommended	Recommended	Recommended
Differential active probe 250 MHz, ± 700 V		Recommended	Recommended	Recommended
200 MHz 10:1 Differential Probe with AutoProbe		Recommended	Recommended	Recommended
800 MHz 10:1 Differential Probe with AutoProbe		Recommended	Recommended	Recommended
AC/DC Current probe 100 kHz 100 A		Recommended	Recommended	Recommended
AC/DC Current probe 50 MHz 15 A with AutoProbe		Recommended	Recommended	Recommended
AC/DC current probe 100 MHz 15 A with AutoProbe		Recommended	Recommended	Recommended
2-channel high-sensitivity current probe 50 μA to 5 A		Recommended	Recommended	Recommended
1-channel high-sensitivity current probe 50 μA to 5 A		Recommended	Recommended	Recommended
Low noise 2 GHz power rail probe		Compatible	Compatible	Recommended
Accessories and connectivity options				
LAN/VGA connection module	Option	Option	Standard	Standard
GPIO connection module	Option	Option	Option	Option
Front panel cover	Option	Option	Standard	Standard
Rack mount kit	Option	Option	Option	Option
Soft carrying case	Option	Option	Option	Option
Hard copy manual	Option	Option	Option	Option

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