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TECHNOLOGY GROUP

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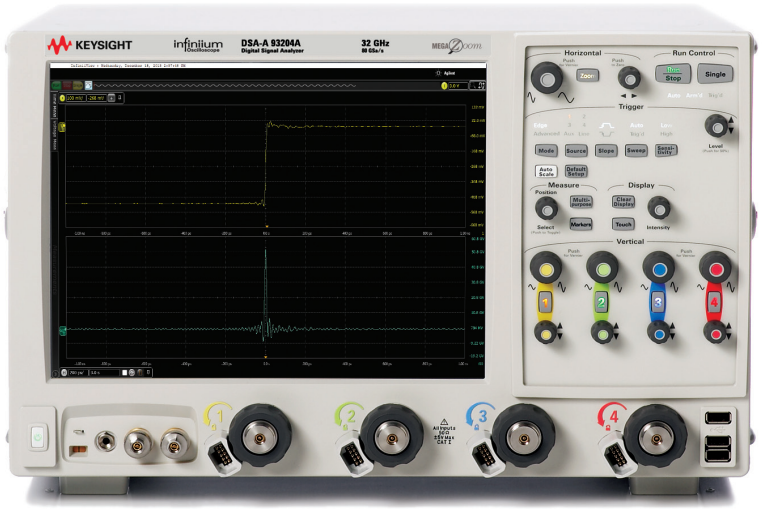
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Product Fact Sheet

Keysight Infiniium 90000 X-Series Oscilloscopes

Engineered for 33 GHz True Analog Bandwidth that Delivers



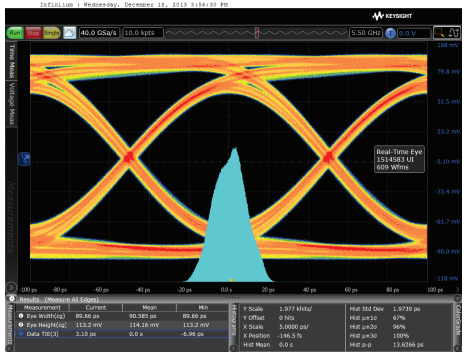
Full 30 GHz probing system

An oscilloscope is only as good as the system that gets you to the device you are measuring. The InfiniiMax III probing system provides the bandwidth that you need for your probing needs.



The industry's most comprehensive application-specific software

The new user interface and comprehensive compliance software make it easy to debug and validate the device.



Key specifications

Product	Description
Bandwidth	33, 28, 25, 20, 16, and 13 GHz
Channels	4 channels
Sample rate	80 GSa/s 2 ch, 40 GSa/s 4 ch
Memory depth	20 Mpts standard Up to 2 Gpts available
Edge trigger	> 20 GHz
Warranty	Standard 3-year warranty
Mixed signal	20 GSa/s on 8 ch

The industry's highest measurement accuracy

- **True analog bandwidth to 33 GHz:**
  Hardware performance to full bandwidth, no DSP boosting or frequency interleaving.
- **The industry's lowest noise floor:**
  Maximize eye height measurements by ensuring that you get the least amount of noise from your instrument.
- **The industry's lowest intrinsic jitter:**
  See your true jitter and not the oscilloscopes, making Rj/Dj separation more accurate.



KEYSIGHT TECHNOLOGIES

Order the Digital Signal Analyzer (DSA) to get 50 Mpts of memory, EZJIT, EZJIT Plus, EZJIT Complete, and serial data analysis software standard.
Order the Mixed Signal Oscilloscope (MSO) to get 16 digital channels and DDR protocol standard.

Oscilloscope models

Model	Bandwidth	Sample rate [1,2]	Memory depth [1,2]	Scope channels
DSOX91304A	13 GHz	80 GSa/s	2 Gpts	4
DSAX91304A	13 GHz	80 GSa/s	2 Gpts	4
MSOX91304A	13 GHz	80 GSa/s	2 Gpts	4 analog + 16 digital
DSOX91604A	16 GHz	40 GSa/s	20 Mpts	4
DSAX91604A	16 GHz	40 GSa/s	50 Mpts	4
MSOX91604A	16 GHz	80 GSa/s	2 Gpts	4 analog + 16 digital
DSOX92004A	20 GHz	80 GSa/s	20 Mpts	4
DSAX92004A	20 GHz	80 GSa/s	50 Mpts	4
MSOX92004A	20 GHz	80 GSa/s	2 Gpts	4 analog + 16 digital
DSOX92504A	25 GHz	80 GSa/s	20 Mpts	4
DSAX92504A	25 GHz	80 GSa/s	50 Mpts	4
MSOX92504A	25 GHz	80 GSa/s	2 Gpts	4 analog + 16 digital
DSOX92804A	28 GHz	80 GSa/s	20 Mpts	4
DSAX92804A	28 GHz	80 GSa/s	50 Mpts	4
MSOX92804A	28 GHz	80 GSa/s	50 Mpts	4 analog + 16 digital
DSOX93204A	33 GHz	80 GSa/s	20 Mpts	4
DSAX93204A	33 GHz	80 GSa/s	50 Mpts	4
MSOX93204A	33 GHz	80 GSa/s	2 Gpts	4 analog + 16 digital

1. In 4 ch mode, sample rate is 40 GSa/s on all four channels.
2. Up to 2 Gpts available on all four channels.

Application software

Model	Description
DSOX90000-001	PrecisionProbe AC calibration for Infiniium
DSOX90000-002	EZJIT jitter analysis software
DSOX90000-003	High-speed SDA and clock recovery
DSOX90000-004	EZJIT plus jitter analaysis software
DSOX90000-009	InfiniiScan + software triggering
DSOX90000-010	User-defined function
DSOX90000-012	Infiniium signal equalization
DSOX90000-013	Infiniium basic signal de-embedding
DSOX90000-014	Infiniium advanced signal de-embedding
DSOX90000-035	MIPI D-PHY compliance application
DSOX90000-038	SATA 6 Gb/s compliance
DSOX90000-040	User defined application
DSOX90000-041	USB 3.0 compliance software

Options and accessories

Model	Description
DSOX90000-050	50 Mpts/ch memory
DSOX90000-100	100 Mpts/ch memory
DSOX90000-200	200 Mpts/ch memory
DSOX90000-500	500 Mpts/ch memory
DSOX90000-01G	1 Gpts/ch memory
DSOX90000-02G	2 Gpts/ch memory
DSOX90000-1CM	Rack moount kit option
DSOX90000-801	Removable hard drive
DSOX90000-805	GPIB card-interface
DSOX90000-823	PCI-Express card-interface
DSOX90000-820	DVD-RW
DSOX90000-A6J	ANSI Z540 compliant calibration

InfiniiMax III probing options

Model	Description
N2803A	30 GHz probe amp
N2802A	25 GHz probe amp
N2801A	20 GHz probe amp
N2800A	16 GHz probe amp
N5439A	ZIF probe head
N5445A	Browser probe head
N5441A	Solder-in probe head
N5444A	2.92 mm probe head
N5440A	450 Ω ZIF replacement (set of 5)
N5447A	200 Ω ZIF replacement (set of 5)
N5476A	Browser tip replacement (set of 5)
N5443A	PV/deskew kit
N5442A	AutoProbe adaptor
N5477A	Sampling scope adaptor
N5448A	Flexible cable set add on 2.92 mm
N5449A	High impedance adaptor

For more information on this and other Keysight oscilloscope please visit: www.keysight.com/find/90000X-Series



Three-Year Warranty
www.keysight.com/find/ThreeYearWarranty
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KEYSIGHT TECHNOLOGIES

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