

Keysight Infiniium 90000 Q-Series Oscilloscopes

What makes the Infiniium 90000 Q-Series the real-time scope for the extremes of electrical and optical measurements?

Achieve your real edge

At the extremes of electrical and optical measurements, the right oscilloscope will help you explore the “what” and also understand the “why.” That’s the idea behind the Q-Series. It’s our latest step forward in the application of Keysight Technologies, Inc. microwave expertise to real-time oscilloscopes. Even at its industry leading bandwidths, the Q-Series lets you see your fastest signals as they really are. Equip your lab with the Q-Series—and achieve your real edge.

See your signal as it really is

- Unrivaled bandwidth: 4 channels at 33 GHz and 80 GSa/s. 2 channels at 63 GHz and 160 GSa/s. See faster rise times and more harmonics.
- 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 with 75 fs of jitter.

Full 30 GHz probing system

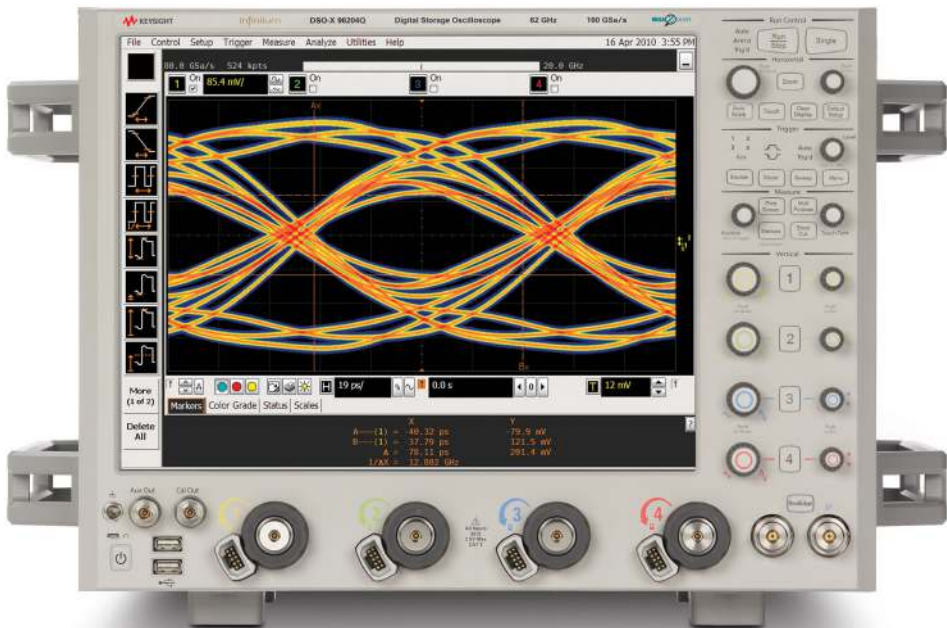
An oscilloscope is only as good as the system that gets you to the device you are measuring. The InfiniiMax III probing system provides the bandwidth that you need for your probing needs.

Most comprehensive software specific applications

More than 30 measurement applications.

Key specifications

Bandwidth	63 GHz, 50 GHz, 33 GHz, 25 GHz, and 20 GHz
Channels	4 channels
Sample rate	160 GSa/s 2 channel 80 GSa/s 4 channel
Memory depth	20 Mpts standard Up to 2 Gpts available
Edge trigger	> 20 GHz
Noise floor	2.0 mVrms at 33 GHz and 50 mV/div



Order the Digital Signal Analyzer (DSA) to get 50 Mpts of memory, EZJIT, EJIT+, noise reduction, and serial data analysis software standard

Oscilloscope models

Oscilloscope	Description
DSAX96204Q	63 GHz signal analyzer
DSOX96204Q	63 GHz digital signal oscilloscope
DSAX95004Q	50 GHz signal analyzer
DSOX95004Q	50 GHz digital signal oscilloscope
DSAX93304Q	33 GHz signal analyzer
DSAX93304Q	33 GHz digital signal oscilloscope
DSAX92504Q	25 GHz signal analyzer
DSAX92504Q	25 GHz digital signal oscilloscope
DSAX92004Q	20 GHz signal analyzer
DSAX92004Q	20 GHz digital signal oscilloscope

Key applications

Model	Description
DSOX90000A-001	PrecisionProbe AC calibration for infiniium
DSOX90000A-002	EZJIT jitter analysis software
DSOX90000A-003	High-speed SDA and clock recovery
DSOX90000A-004	EZJIT plus jitter analysis software
DSOX90000A-005	Noise reduction and bandwidth control
DSOX90000A-009	InfiniiScan + software triggering
DSOX90000A-010	User-defined function
DSOX90000A-011	Remote programming interface
DSOX90000A-012	Infiniium signal equalization
DSOX90000A-013	Infiniium basic signal de-embedding
DSOX90000A-014	Infiniium advanced signal de-embedding
DSOX90000A-035	MIPI D-PHY compliance application
DSOX90000A-038	SATA 6 Gb/s compliance
DSOX90000A-040	User defined application
DSOX90000A-041	USB 3.0 compliance software

Options and accessories

Description	Options	Model number
50 Mpts/channel memory	DSOX90000-050	N2810-050
100 Mpts/channel memory	DSOX90000-100	N2810-100
200 Mpts/channel memory	DSOX90000-200	N2810-200
500 Mpts/channel memory	DSOX90000-500	N2810-500
1 Gpt/channel memory	DSOX90000-01G	N2810-01G
2 Gpts/channel memory	DSOX90000-02G	N2810-02G
ANSI Z540 compliant calibration	DSOX90000-A6J	
ISO17025 calibration	DSOX90000-1A7	
DVD RW	DSOX90000-820	N5473A
GPIO card-interface	DSOX90000-805	82350B
Performance verification de-skew fixture for infiniMax III probe	DSOX90000-808	N54443A
Rackmount kit option	DSOX90000-1CM	N2759A
Removable hard drive	DSOX90000-801	N5474C
Transit case		N2748A

InfiniiMax III probing options

Description	Probe or accessory
30 GHz InfiniiMax III probe amplifier	N2803A
25 GHz InfiniiMax III probe amplifier	N2802A
20 GHz InfiniiMax III probe amplifier	N2801A
16 GHz InfiniiMax III probe amplifier	N2800A
ZIF probe head	N5439A
Browser (hand held) probe head	N5445A
Solder-in probe head	N5441A
3.5/2.92/SMA probe head	N5444A
Performance verification fixture	N5443A
450 Ω zif tip kit (set of five)	N5440A
200 Ω zif tip kit (set of five)	N5447A
Browser tip replacement	N5476A
Precision BNC adaptor	N5442A
Sampling scope adaptor	N5477A
2.92 mm flexible cable	N5448A
High impedance probe adaptor	N5449A
35 GHz flexible cable	N2812A

For more information on this and other Keysight oscilloscopes please visit www.keysight.com/find/90000_Q_Series

Recommended service options

Additional two years of Return-to-Keysight warranty
 Additional two years of Return-to-Keysight calibrations
 For more information go to www.keysight.com/find/removealldoubt