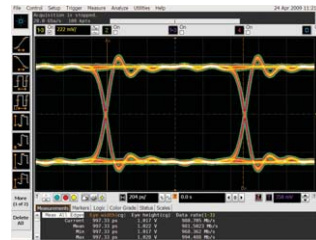# Industry Comparison Guide:
Infiniium 9000 Series vs. LeCroy WavePro 7 Zi Series Oscilloscopes

It's three instruments in one

1. **Powerful oscilloscope** - 600 MHz, 1, 2.5 and 4 GHz bandwidths, fast sample rates and responsive deep memory. Lower bandwidth models are upgradeable.

2. **MSO models** add 16 channels of logic timing analysis. You can upgrade your scope later to an MSO.

3. **Protocol analyzer** for common serial buses - quickly move between physical and protocol layers with the time-correlated tracking marker.

	Agilent Infiniium 9000 Series		LeCroy WavePro 7 Zi	
Lowest entry price		✓		✗
Maximum memory	500M per channel, 1G on two channels	✓	128 M per channel, 256 M on two channels	
Volts/division controls	One per channel	✓	One multiplexed among four	
Captures off screen data	Yes	✓	No	✗
Integrated MSO	Yes	✓	No- external box	✗
MSO segmented memory	Yes	✓	No	✗
Cross trigger on a scope edge + pattern	Yes	✓	No	✗
MSO probes	Flying leads, Mictor, Samtec, Soft Touch	✓	Flying leads	
USB, JTAG, MIPI, SATA protocol triggering and decode	Available	✓	only PCIe decode	✗

Agilent Technologies

Engineered for the broadest measurement capability

It's sized to fit your environment

In addition to 3-in-1 instrument capability, the Infiniium 9000 also offers:
- the largest display to see analog, digital and protocol measurements time correlated
- the lightest scope in its class
- the smallest form factor to reduce bench space.

How did we do it?

Agilent designed a 20 layer acquisition board that contains 27 custom ASICs and 3 FPGAs.

	Agilent Infiniium 9000 Series	LeCroy WavePro 7 Zi
Display	15-inch (4:3) (7% more area)	15-inch (16:9)
Instrument volume	1,950 cu in	2,937 cu in (>50% bigger)
Weight	26 lbs (60% lighter)	40 lbs
Depth	9 inches (30% slimmer)	13 inches

To obtain additional information about Agilent's Infiniium 9000 Series, go to: www.agilent.com/find/9000
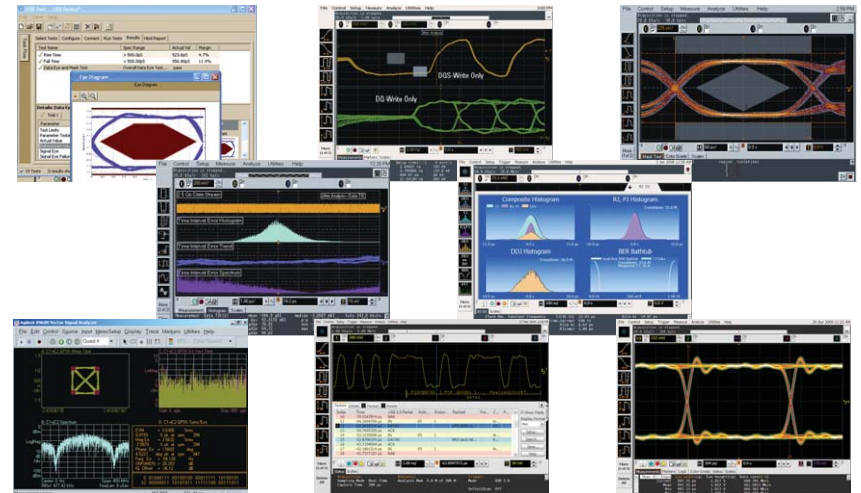
It has the widest range of debug and compliance applications

We know that you need more than measurements - you need answers.
That's why the Infiniium 9000 offers over 25 supported applications, such as:

- **Oscilloscope applications:** jitter analysis, InfiniiScan, serial data analysis, MATLAB, vector signal analysis, power analysis

- **Protocol analysis:** I^2C, SPI, RS-232/UART, CAN, LIN, FlexRay, JTAG, USB, PCIe, MIPI, SATA, 8B/10B

- **Compliance to standards:** USB, DDR1, LPDDR, DDR2, LPDDR2, DDR3, MIPI, ethernet, communications mask test

- **FPGA debug:** Xllinx and Altera FPGA dynamic probe

Agilent Technologies