Keysight Technologies Infiniium 9000 Series vs. Tektronix 7000C Series

Keysight 9000 Series



Tektronix 7000C Series





	Tektronix DPO 7000C Series		Keysight Infiniium 9000 Series	
Bandwidths Offered	500MHz, 1 GHz, 2.5 GHz, 3.5 GHz (DSP boosted)	1	600 MHz, 1 GHz, 2.5 GHz, 4 GHz	
Upgradeable bandwidth	No	Χ	Yes	
Max sample rate (2-ch)	up to 20 GSa/s		up to 20 GSa/s	
Standard/Max memory (2-ch)	25 Mpts/250 Mpts	Χ	40Mpts/1 Gpts	
Scope update rate (table on reverse side)	FastAcq mode to 250k wf/s (limitations)	√	No DPX mode	
	36 wf/s with 1 Kpts	Χ	1000 wf/s with 1 Kpts	1
	13 wf/s with 1 Mpts	Χ	500 wf/s with 1 Mpt	1
Biggest Display	12"	Χ	15" (40% more display area)	
Vertical/horizontal knobs: Pushable vernier control	Not offered	X	Yes. All four vertical channel & horizontal knobs.	
Drag and drop measurements	Not available	Χ	Yes	
Triggering stages	2 HW	√	1 HW + 1 SW	
InfiniiScan Zone Triggering	Not available	Χ	Option. Up to 8 zones	
Standard Probes	500 MHz passive	1	500 MHz passive	
Protocol features	decode on waveforms, limited lister only	X	lister, decode on waveforms, multi-tab view, decode entire record, segmented memory support	

MSO Comparison	Tektronix DPO 7000C Series		Keysight Infiniium 9000		
MSO Sample Rate		Χ	2 GSa/s	$\sqrt{}$	
MSO memory depth (std/max)	No MSO	Χ	128 Mpts/128 Mpts	$\sqrt{}$	



Benefits of Large Display Size 15" VS 12" display



Keysight has 40% more display area

- Easier to see signal detail
- 2. Easier to drive (font size)
- 3. Easier for multiple people to see
- 4. Bigger touch screen field for easier control







Benefits of fast update rate

- See infrequent events
- Better view of signal detail
- Responsive controls
- Faster post-processing/analysis

Tek DPX limitations:

Isn't on normally. Doesn't work when MSO channels or protocol is on. Doesn't work with real time mode (switches scope to equivalent time mode). User can't adjust horizontal or vertical controls when stopped (can't zoom in on signal detail). Memory depth limited to 250 kpts. Doesn't work with Math. Doesn't work with Fast Frame.

Tek 7000C			Keysight 9000		
Scope (Memory depth)	Waveform/	Sec			
100 Kpts	34	Χ	550	√	
1 Mpts	14	Χ	500	1	
10 Mpts	2	Χ	300	√	
DPX special mode	250,000*	1		1	

* tradeoffs listed on left

Ease-of-Use Front Panel Differences



- No pushable knobs.
- No vernier scaling.
- Limited view of channel setup



Capabilities not on Tek 7000C front panel

- Push to Zero delay (horizontal)

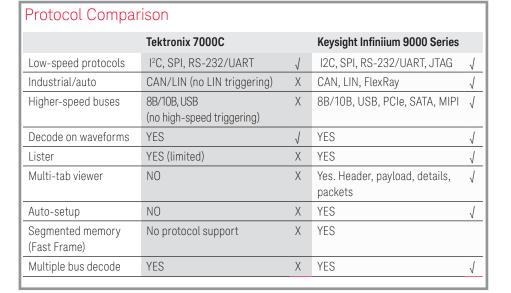
Multi-purpose button (user customizable)

- Push for vernier control

- Vernier horizontal scaling
- Vernier vertical scaling
- Channel coupling, impedance, BW limit display

AC EM BW

www.keysight.com/find/9000





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