Tektronix DPO7000C vs Keysight Technologies S-Series

Competitive Fact Sheet



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	Tektronix DPO7000C Series		Keysight S-Series	
Max bandwidth	Up to 3.5GHz	×	Up to 8GHz	✓
Max bandwidth all CHs	Up to 3.5GHz	\checkmark	Up to 4GHz	\checkmark
Trigger bandwidth	Full Bandwidth	\checkmark	Limited to 3GHz on 4GHz+ scopes	×
Max sample rate	40GS/s*	\checkmark	20GS/s	×
Max sample rate all CHs	10GS/s*	\checkmark	10GS/s	\checkmark
Max memory	500M	×	800M	\checkmark
Max waveform update rate**	300,000 wfms/sec	\checkmark	1,100 wfms/sec	×
ADC resolution in HiRes/ Peak Detect	8-bits	\checkmark	8-bits	\checkmark
ADC resolution at 5GS/s and lower.	8-bits	\checkmark	8-bits	\checkmark
Max ADC resolution	8-bits	×	10-bits Only at 20GS/s & 10GS/s	\checkmark
Max vertical resolution	Up to 12 bits with HiRes	\checkmark	Up to 12 bits with HiRes	\checkmark
ENOB*** @ 1GHz	6.7 bits	×	7.4 bits	\checkmark
Lowest HW vertical setting	1mV/div = 10mV Full Scale	\checkmark	2mv/div = 16mV Full Scale	×
DC gain accuracy	1.0%	\checkmark	2.0%	×
Graphical trigger	Visual Trigger	\checkmark	Zone Trigger – Limited functionality	×
Automated Search and mark	Search & Mark on Visual Trigger, Standard Triggers and Serial Decode events	\checkmark	Only Search on Serial Decode events	×
CPU	Intel i7 Quad Core	\checkmark	Intel i5 Quad Core	×
Offline Scope Viewer	Yes	\checkmark	Yes	\checkmark

*Standard on DPO7354C, DPO7254C, and DPO7104C with opt. 2SR $\,$

**Keysight not specified, but max rate measured by Tektronix

***ENOB tested by Tektronix, at 500mV Full Scale at 1GHz and 20GS/s on both scopes

