

MDO3000 Series and MDO/DPO4000B Series Oscilloscopes Series Comparison

Fact Sheet



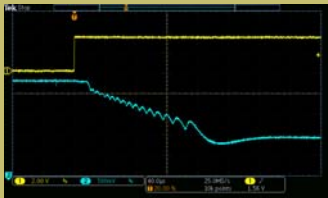
General Specifications	MDO3000	DPO4000B	MDO4000B
Bandwidth Range	100 MHz – 1 GHz	100 MHz – 1 GHz	
2 Channel Models	Available at all Bandwidths	Available only at 1 GHz	--
Sample Rate 100-500 MHz models 1 GHz models	2.5 GS/s on all channels 2.5 / 5 GS/s on all / half channels	2.5 GS/s on all channels 5 GS/s on all channels	2.5 GS/s on all channels 2.5 / 5 GS/s on all / half channels
Record Length	10M	20M	
Waveform Capture Rate	up to 280,000 wfm/s	up to 50,000 wfm/s	
Integrated Digital Channels	Opt.	--	16
Integrated Spectrum Analyzer	Std: up to oscilloscope BW Opt: up to 3 GHz	--	Std: Either 3 GHz or 6 GHz models
Integrated Arbitrary Function Generator	Opt.	--	
Integrated DVM	Free with product registration	--	
Serial Bus Support	I ² C, SPI, RS-232/422/485/UART, CAN, LIN, FlexRay, USB, Audio, MIL-STD-1553 2 buses can be defined	I ² C, SPI, RS-232/422/485/UART, CAN, LIN, FlexRay, USB, Audio, MIL-STD-1553, Ethernet 4 buses can be defined	
Video Support	NTSC, PAL, SECAM, HDTV, Custom, Picture Mode , and 75Ω termination all included standard	NTSC, PAL, SECAM standard Optional DPO4VID adds HDTV and Custom	
Other	Dual edge triggering, act-on-event, search mark table, email printing, enhanced security	--	
Available Upgrades	Oscilloscope Bandwidth, Spectrum Analyzer Frequency Range, Digital Channels, AFG	--	
Display Size and Resolution	9" WVGA (800 x 480)	10.4" XGA (1,024 x 768)	
Dimensions (HxWxD in inches)	8.0 x 16.4 x 5.8	9.0 x 17.3 x 5.8	
Weight	9 lbs.	11 lbs.	
Warranty	3 years	3 years	

MDO3000 Series and MDO4000B Series Mixed Domain Oscilloscopes Series Comparison

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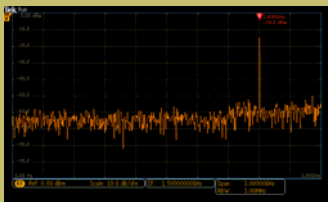


MDO3000
Time Domain

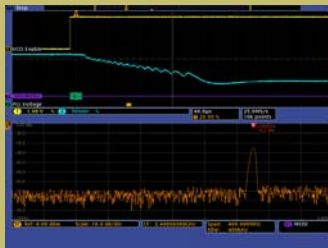


OR

Frequency Domain



MDO4000B
Both at Once



RF Specifications	MDO3000	MDO4000B
Frequency Range	9 kHz – 3 GHz	9 kHz – 6 GHz
Capture Bandwidth	3 GHz max.	3.75 GHz max.
Phase Noise at 1 GHz CF	10 kHz offset -81 dBc/Hz, -85 dBc/Hz (typical) 100 kHz offset -97 dBc/Hz, -101 dBc/Hz (typical) 1 MHz offset -118 dBc/Hz, -122 dBc/Hz (typical)	-108 dBc/Hz, -111 dBc/Hz (typical) -110 dBc/Hz, -113 dBc/Hz (typical) -120 dBc/Hz, -123 dBc/Hz (typical)
Displayed Average Noise Level (DANL)	9 kHz – 50 kHz -109 dBm/Hz, -113 dBm/Hz (typical) 50 kHz – 5 MHz -128 dBm/Hz, -132 dBm/Hz (typical) 5 MHz - 400 MHz -138 dBm/Hz, -142 dBm/Hz (typical) 400 MHz – 2 GHz -138 dBm/Hz, -142 dBm/Hz (typical) 2 GHz – 3 GHz -130 dBm/Hz, -134 dBm/Hz (typical) 3 GHz – 4 GHz -- 4 GHz – 6 GHz --	-116 dBm/Hz, -120 dBm/Hz (typical) -130 dBm/Hz, -134 dBm/Hz (typical) -146 dBm/Hz, -148 dBm/Hz (typical) -147 dBm/Hz, -149 dBm/Hz (typical) -147 dBm/Hz, -149 dBm/Hz (typical) -148 dBm/Hz, -152 dBm/Hz (typical) -140 dBm/Hz, -144 dBm/Hz (typical)
2nd Harmonic Distortion at 1 GHz	-55 dBc, -60 dBc (typical)	-60 dBc, -65 dBc (typical)
3rd Order Intermodulation Distortion at 1 GHz	-55 dBc, -60 dBc (typical)	-62dBc, -65 dBc (typical)
Residual Response	-78 dBm w/ exceptions to -67 dBm	-85 dBm w/ exceptions to -78 dBm
Max Input Power (average continuous power)	+20 dBm (0.1W)	+30 dBm (1W)
View Time and Frequency Domains Simultaneously	--	Std.
Time Correlation Between Domains	--	Std.
RF vs. Time Traces (Amplitude, Frequency, Phase)	--	Std.
RF Power Level Triggering	--	Std.
Export of .TIQ files for SignalVu-PC / MATLAB	Std.	Std.
LiveLink w/ SignalVu-PC	--	Opt.