

MSO/DPO Series of Mixed Signal Oscilloscopes

Product Comparison

	4000B Series	3000 Series	2000 Series
Bandwidth	1 GHz, 500 MHz, 350 MHz models	500 MHz, 300 MHz, 100 MHz models	200 MHz, 100 MHz models
Channels	<ul style="list-style-type: none"> ▪ 4 analog ▪ 16 digital (MSO Series) 	<ul style="list-style-type: none"> ▪ 2 or 4 analog ▪ 16 digital (MSO Series) 	<ul style="list-style-type: none"> ▪ 2 or 4 analog ▪ 16 digital (MSO Series)
Record Length	20 M points	5 M points	1 M points
Waveform Capture Rate	> 50,000 wfm/s	> 50,000 wfm/s	5,000 wfm/s
Analog Sample Rate	5 GS/s (1 GHz models) 2.5 GS/s	2.5 GS/s	1 GS/s
Digital Sample Rate (MSO Series)	500 MS/s main, 16 ch 16.5 GS/s MagniVu, 16 ch	500 MS/s main, 16 ch 8.25 GS/s MagniVu, 16 ch	1 GS/s main, 8 ch 500 MS/s main, 16 ch
Parallel Bus Analysis (MSO Series)	Yes	Yes	Yes
Optional Serial Bus Analysis Modules	<ul style="list-style-type: none"> ▪ I²C, SPI ▪ CAN, LIN, FlexRay ▪ Ethernet ▪ RS-232/422/485/UART ▪ I²S/LJ/RJ/TDM ▪ MIL-STD-1553 ▪ USB 	<ul style="list-style-type: none"> ▪ I²C, SPI ▪ CAN, LIN ▪ RS-232/422/485/UART ▪ I²S/LJ/RJ/TDM 	<ul style="list-style-type: none"> ▪ I²C, SPI ▪ CAN, LIN ▪ RS-232/422/485/UART
Simultaneous decode of buses (serial and/or parallel)	<ul style="list-style-type: none"> ▪ 4 	<ul style="list-style-type: none"> ▪ 2 	<ul style="list-style-type: none"> ▪ 2
Optional Analysis Packages	<ul style="list-style-type: none"> ▪ Power Analysis ▪ HDTV and Custom Video ▪ Limit and Mask Testing 	<ul style="list-style-type: none"> ▪ Power Analysis ▪ HDTV and Custom Video 	--
USB Connections	2 USB host port (front) 2 USB host + 1 USB device ports (rear)	1 USB host port (front) 1 USB host + 1 USB device ports (rear)	1 USB host port (front) 1 USB device port (rear)
Additional Connections	LAN + Video Out (rear)	LAN + Video Out (rear)	Optional LAN + Video Out (rear) (order DPO2CONN)
Probes	One TPP0500 (350 MHz, 500 MHz models) and TPP1000 (1 GHz model) per analog channel	One P6139A per analog channel	One P2221 per analog channel
Probe Power	On-board Probe Power (up to 50W)	On-board Probe Power (up to 20W)	External Power Adapter Available (order 119-7465-xx)
Impedance	1M Ω , 50 Ω	1M Ω , 50 Ω , 75 Ω	1M Ω (requires adapter for 50 Ω , 75 Ω)
Device Cover	Front cover included	Front cover included	Protective front cover not included (bundled with soft carrying case)