

MSO/DPO Series of Mixed Signal Oscilloscopes

Product Comparison

	4000 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	10 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 ▪ RS-232/422/485/UART ▪ I²S/LJ/RJ/TDM 	<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 (MSO4000) ▪ 2 (DPO4000) 	<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 	<ul style="list-style-type: none"> ▪ Power Analysis ▪ HDTV and Custom Video 	--
USB Connections	1 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 P6139A 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)