



# Tektronix 4 Series B MSO and 4 Series MSO

## OSCILLOSCOPE COMPARISON

The **NEW 4 Series B MSO** delivers the **performance, responsiveness, and fast analysis** today's electronics designers require. With **greater processing power** and **improved connectivity**, the 4 Series B MSO is an essential part of any bench with broad application coverage. The 4 Series B MSO has the same award-winning user interface and accuracy specs as the original 4 Series MSO.

### What's New in the 4 Series B MSO?

- **NEW** More powerful computation platform, more processing power
  - UI is twice as responsive
  - Measurements and serial decoding are significantly faster
  - Remote data transfers are 50% faster
- **NEW** 2 USB 3.1 host ports for fast data transfers
  - 10X faster data transfers to USB media
- **NEW** Display technology delivers more contrast, better viewing angle, less screen reflection
- **NEW** Fully supported e\*Scope for easy remote scope control with 10x faster display update rate
- **NEW** Measurement annotations indicate reference levels and timing for more measurements
- **NEW** Waveform histograms provide insight into noise and jitter

New display with wider viewing angle



Faster processor

### Specifications Comparison

	4 Series MSO	<b>NEW 4 Series B MSO</b>
Processor	1.5 GHz 32-bit ARM	<b>2.7 GHz 64-bit Intel Atom</b>
FlexChannel Inputs	4 or 6 (32 or 48 digital)	
Vertical Resolution	12-bit (up to 16-bit in High-Res)	
Analog Bandwidth	200 MHz - 1.5 GHz	
Sample Rate all channels	6.25 GS/s	
Record Length	31.25 M (standard), 62.5 M (optional)	
Function Generator Max. Frequency	50 MHz	
RF Analysis	Spectrum View with DDC, 312.5 MHz span (standard), 500 MHz span (optional)	
Display	13.3-inch HD (1920 x 1080) capacitive touch <b>(4 Series B uses new bonding for higher contrast)</b>	
Operating System	Embedded OS, NOT removable	
Connectivity, Ports	5 USB 2.0 Host	3 USB 2.0 & <b>2 USB 3.1 Host</b>
	1 HDMI, 1 Ethernet, 1 USB 2.0 Device	

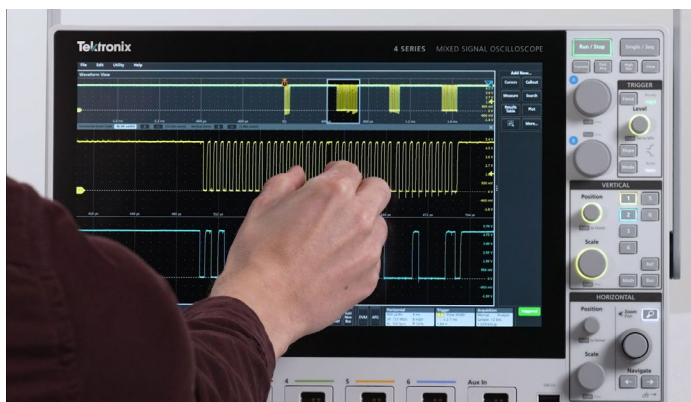




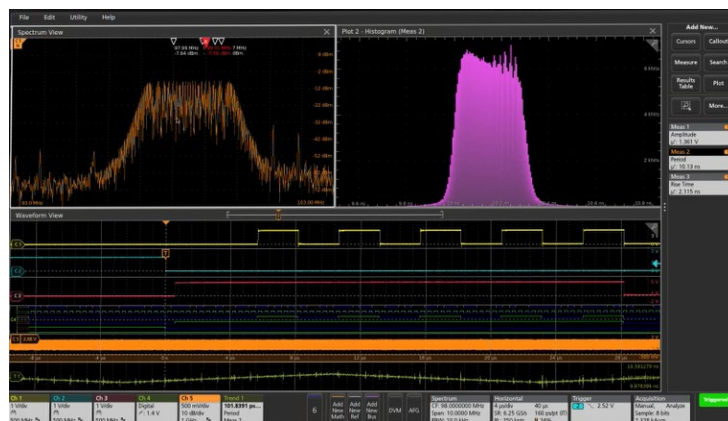
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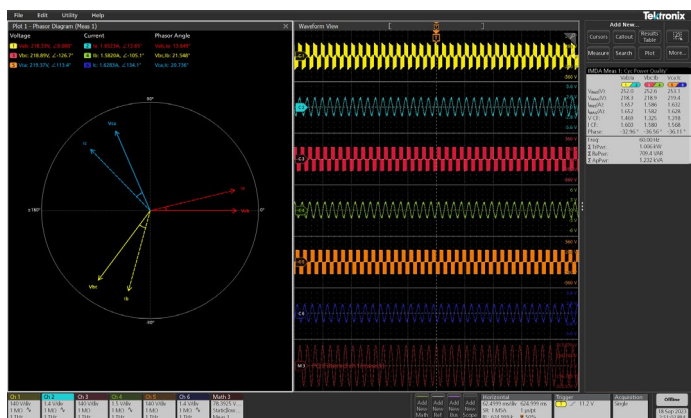
### 4 Series B MSO for Faster Measurements and Advanced Analysis



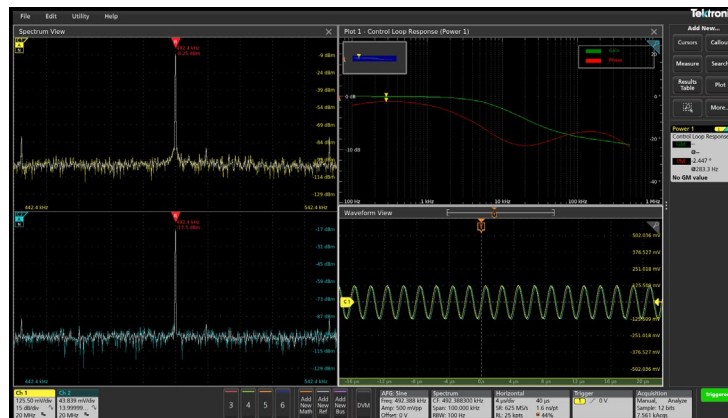
Panning and Zooming



Plots, Histograms and Statistics



3-Phase Power Measurements and Analysis

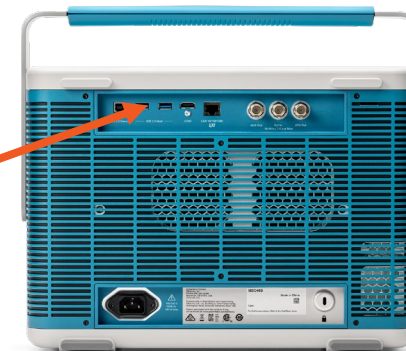


Bode Plots

The same serial bus standards are available on the new 4 Series B MSO, but calculate **>2x faster**

### Serial Bus Decode and Search

1-Wire	I2C	RS-232 / UART
ARINC 429	I2S Audio	SDLC
Automotive Ethernet	I3C	SENT
CAN / LIN / FlexRay	Manchester	SMBus
CXPI	MDIO	SpaceWire
eSPI	MIL-STD-1553	SPI
EtherCAT	NFC	SPMI
Ethernet	NRZ	SVID
eUSB2	PSI5	USB 2.0



2 New USB 3.1 host ports for more than 10x faster data transfer to storage devices

