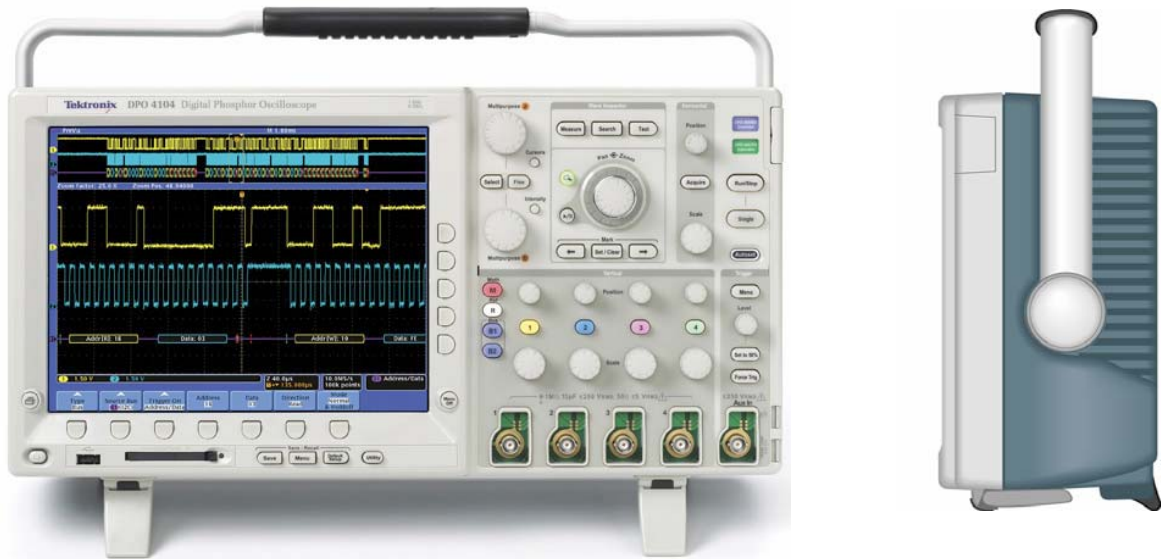


# Tektronix DPO4000 Series Oscilloscopes

Feature-rich tools for debugging mixed signal designs

Product Fact Sheet



Free up valuable bench-top space -

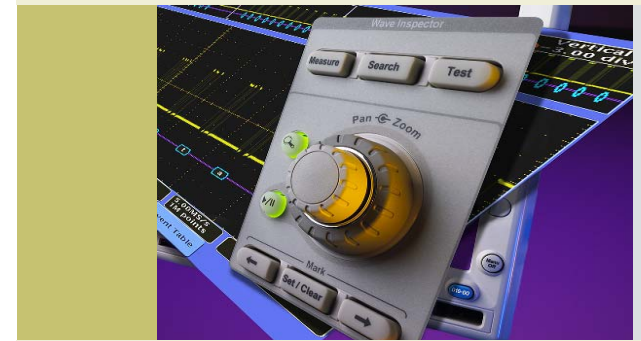
Dimensions: 9.0 in. (229 mm) height x 17.3 in. (439 mm) width x 5.4 in (137 mm) depth; 11 lbs (5kg) weight.

## Key Specifications

<b>Bandwidth</b>	350 MHz, 500 MHz, 1 GHz models
<b>Channels</b>	4 channel models
<b>Record Length</b>	10 M standard on all channels
<b>Sample Rate</b>	Up to 5 GS/s on all channels
<b>Display</b>	10.4 inches (264 mm); 1,024 x 768 resolution (XGA)
<b>Mass Storage</b>	Front panel USB and CompactFlash
<b>Additional</b>	<ul style="list-style-type: none"><li>▪ I<sup>2</sup>C, SPI, CAN, LIN, FlexRay, RS-232/422/485/UART serial triggering and analysis options</li><li>▪ Built in Ethernet port</li></ul>

## Meet the Wave Inspector

Efficiently view, navigate and analyze waveform data



Zoom, pan, search, set user marks and more with dedicated front-panel Wave Inspector controls.

### Zoom-Pan

Intuitive front-panel zoom and pan controls for simple waveform navigation.

### User Marks

Easy “bookmarking” for quick navigation between marks.

### Search

Quickly find and mark all occurrences of user specified events.

[www.tektronix.com/dpo4000](http://www.tektronix.com/dpo4000)



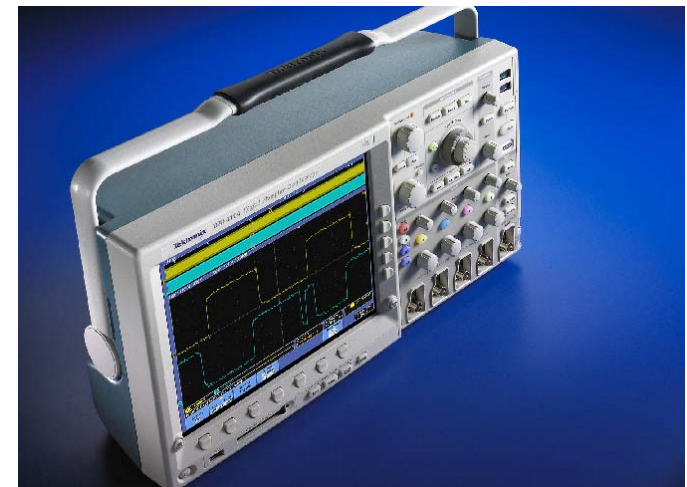
Triggering on specific data packet going across an I<sup>2</sup>C bus.



CAN event table display of bus content for easy comparison with software listings.



Slim 5.4 in. form factor helps free up valuable bench-top space.



## Ordering Information

Models	Analog Channels	Bandwidth	Sample Rate (ALL Channels)	Record Length
DPO4104	4	1 GHz	5.0 GS/s	10 M
DPO4054	4	500 MHz	2.5 GS/s	10 M
DPO4034	4	350 MHz	2.5 GS/s	10 M

### Application Modules

- DPO4EMBD** - Embedded Serial Triggering and Analysis Module (I<sup>2</sup>C, SPI).
- DPO4COMP** - Computer Serial Triggering and Analysis Module (RS-232/422/485/UART).
- DPO4AUTO** - Automotive Serial Triggering and Analysis Module (CAN, LIN).
- DPO4AUTOMAX** - Extended Automotive Serial Triggering and Analysis Module (CAN, LIN, FlexRay).
- DPO4VID** - HDTV and Custom Video Triggering Module.

### Standard Probes and Accessories

- One P6139A 500 MHz, 10x Passive Probe per Channel.
- Front Cover (200-4908-00).
- CompactFlash Memory Card; 32 MB (156-9413-00).
- User Manual (071-2121-xx).
- Documentation CD (063-3903-xx).
- OpenChoice Desktop Software.
- NI LabVIEW SignalExpress Tektronix Edition LE Software.
- Calibration Certificate Documenting Traceability to National Metrology Institute(s) and ISO9001 Quality System Registration.
- Power Cord.
- Accessory Bag (016-1967-00).
- Three-year Warranty.

Please specify power plug and manual version when ordering.

### Recommended Probes and Accessories

Probes	Description
TAP1500	1.5 GHz TekVPI™ Active Probe.
TCP0030	120 MHz TekVPI 30 Ampere AC/DC Current Probe.
TCP0150	20 MHz TekVPI 150 Ampere AC/DC Current Probe.
TDP0500	500 MHz TekVPI 42V Differential Probe.
TDP1000	1 GHz TekVPI 42V Differential Probe.
P5205 <sup>*1</sup>	1.3 kV, 100 MHz High-voltage Differential Probe.
P5210 <sup>*1</sup>	5.6 kV, 50 MHz High-voltage Differential Probe.
P5100	2.5 kV, 100X High-voltage Passive Probe.
ADA400A <sup>*1</sup>	100X, 10X, 1X, 0.1X High-gain Differential Amplifier.

Accessories	Description
071-1844-xx	Service Manual (English only).
SIGEXPTE	NI LabVIEW SignalExpress Tektronix Edition Software.
TPA-BNC	TekVPI to TekProbe BNC Adapter.
TEK-USB-488	GPIO to USB Adapter.
ACD4000	Soft Transit Case.
HCTEK4321	Hard Transit Case (requires ACD4000).
RM4000	Rackmount Kit.
AMT75 <sup>*1</sup>	1 GHz, 75 Ω Adapter.

<sup>\*1</sup> Requires TekVPI™ to TekProbe BNC adapter (TPA-BNC).

### Impressive Performance

- Up to 1 GHz bandwidth.
- 4 channels.
- 10 M uncompromised record length across all channels comes as standard.
- ≥ 5x over sampling across all channels for accurate representation of your signal.
- Advanced video triggering.<sup>\*2</sup>

### Serial Debug for Common Standards

- Serial bus trigger and decode (I<sup>2</sup>C, SPI, CAN, LIN, FlexRay, RS-232/422/485/UART).<sup>\*2</sup>

### Exceptional Ease-of-Use

- Wave Inspector® controls allow you to easily search and navigate through long memory.
- Large 10.4 in. (264 mm) XGA screen.
- Front panel USB and CompactFlash mass storage for easy transfer of information.
- USB plug-and-play PC connectivity.

<sup>\*2</sup> Optional

48W-19356-3