T3DSO2000A Fact Sheet

Oscilloscopes

TELEDYNE TEST TOOLS
Everywhereyoulook™

Debug with Confidence

100 MHz – 500 MHz

Key Specifications

Bandwidth	100 MHz, 200 MHz, 350 MHz, 500 MHz
Channels	2 or 4, 50 Ohm / 1 MOhm Input Impendence
Memory	up to 100 Mpts/Ch (200 Mpts interleaved)
Sample Rate	up to 2 GS/s
Display	10.1" Bright TFT LCD (1024 x 600)
Connectivity	USB Host, USB Device, LAN

Tools for Improved Debugging

• **Long Capture** – 100 Mpts/Ch and 200 Mpts interleaved.	✓ Capture more time and show more waveform detail.
• **Math and Measure** – 9 basic math functions plus FFT and 50+ automatic measurement parameters.	✓ Extract results from waveforms and measurements.
• **Low Noise Architecture** – Supports channel sensitivity as low as 500 µV / Div.	✓ Clearly view small waveforms in detail.
• **Bandwidth Models to 500 MHz** – Choice of 100 MHz, 200 MHz, 350 MHz or 500 MHz models.	✓ Choose the bandwidth you need with 2 or 4 channels.
• **Waveform Sequence Recorder** – record and play back up to 90,000 waveforms.	✓ Replay the changing waveform history.
• **Includes Bode Plot, Power Analysis and common Serial Bus Decoders as standard.**	✓ Wide application coverage as standard.
• **Connectivity** – USB for mass storage, printing and PC control, plus LAN for fast data transfer.	✓ Save data for external analysis and screen images for reports.
• **3 Years Warranty as standard.**	✓ Peace on mind.

For more information, please contact:

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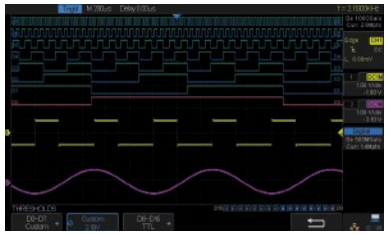
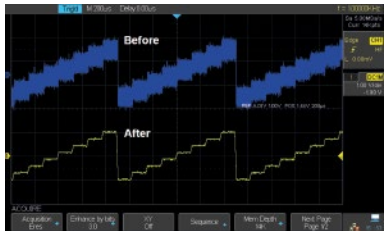


Optional MSO – 16 Digital Channels with colour coded display enables users to more intuitively debug mixed signal applications.



Enhanced Resolution (Eres) mode can improve the SNR without needing a repetitive waveform. Extra resolution bits can be added 0.5 bits at a time up to +3 bits.

Includes Serial Bus Trigger and Decode – I²C, SPI, UART, CAN, LIN. Optional Serial Bus Trigger and Decode – CAN FD, I²S, MIL-1553B, FlexRay

Ordering Information

Model	Bandwidth	Channel	Memory (per Ch/interleaved)	Sample Rate (per Ch/interleaved)
T3DSO2104A	100 MHz	4	100 Mpts / 200 Mpts	1 GS/s / 2 GS/s
T3DSO2204A	200 MHz	4	100 Mpts / 200 Mpts	1 GS/s / 2 GS/s
T3DSO2354A	350 MHz	4	100 Mpts / 200 Mpts	1 GS/s / 2 GS/s
T3DSO2502A	350 MHz	4	100 Mpts / 200 Mpts	1 GS/s / 2 GS/s
	500 MHz	2	200 Mpts	2 GS/s

Standard Configuration	Available Options – See Data Sheet for full details	
• One passive probe per channel • Getting Started Manual • USB Cable • Certificate of Calibration • Multi-language User Interface • Power Cord	• Optional Built-in 16 Channel MSO	T3DSO2000A-MSO & T3DSO2000-LS
	• CAN FD trigger and decode	T3DSO2000A-CANFD
	• FlexRay trigger and decode	T3DSO2000A-FLEXRAY
	• MIL-STD-1553B trigger and decode	T3DSO2000A-MIL-1553
	• I²S trigger and decode	T3DSO2000A-I2S

Excellent Performance

- 100, 200, 350 and 500 MHz bandwidths
- 2 GS/s maximum sample rate
- Up to 100 Mpts/Ch memory, 200 Mpts interleaved

Great Connectivity

- USB host port for mass storage, USB device port for printing and PC control
- LAN port on all T3DSO2000A oscilloscopes

Smart Capabilities

- Averaging, Peak Detect, 10 bit and Enhanced Resolution modes
- Bode Plot and Power Analysis included as standard
- Advanced Triggering including Zone triggering
- Measurement Statistics
- Protocol Trigger and Decode (standard and optional)
- Built-in Function/Arbitrary Waveform Generator
- Optional Built-in 16 Channel MSO