

## **HD06000A Oscilloscopes Fact Sheet**

## **Debug in High Definition**

350 MHz - 1 GHz





Key Specifications	ey Specifications				
Bandwidth	350 MHz, 500 MHz, 1 GHz				
Resolution	12-bit ADC resolution, up to 15-bit with enhanced resolution				
Channels	4				
Memory	Up to 250 Mpts/Ch				
Sample Rate	Up to 10 GS/s with Enhanced Sample Rate				
Digital Channels	16 (with -MS Models)				
Digital Sample Rate	1.25 GS/s				
User Interface	MAUI with OneTouch				
Display	12.1" Wide TFT-LCD Multi-Touch Screen				
Connectivity	USB Host, USB Device, LAN, GPIB				

## **Tools for Improved Debugging**

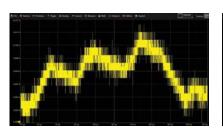
- HD4096 Technology HD4096 high definition technology enables capture and display of signals up to 1 GHz with high sample rate and 16 times more resolution.
- Mixed Signal Debug complex embedded designs with integrated 16 channel mixed signal capability
- **MAUI with OneTouch** Dramatically reduce setup time with drag, drop, and flick to instinctively interact with the oscilloscope.
- Spectrum Analyzer View signal details in the frequency domain with a spectrum analyzer style user interface
- WaveScan Quickly search waveforms for runts, glitches or other anomalies
- Long Memory Up to 250 Mpts/ch captures and support for 5 MS/s Roll mode.
- LabNotebook Save all results and data with a single button press and create custom reports with LabNotebook
- Software Options 23 different serial trigger/decode, measure/graph, and eye diagram options, plus many others.

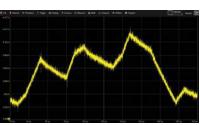
For more information, please contact:				



# **HD06000A Oscilloscopes Fact Sheet**

12 bit 8 bit





Comparison of 20-to-1 vertical zoom of a measured current signal from a pulse-width modulated inverter/drive output.

Waveforms displayed by the HDO8000A are cleaner and crisper. More signal details can be seen and measured; these measurements are made with unmatched precision resulting in better test results and shorter debug time.



MAUI with OneTouch optimizes convenience and efficiency. All common operations can be performed with a single touch.



- 350 MHz, 500 MHz, 1 GHz
- 12-bit ADC resolution, 15-bit with ERES
- Up to 10 GS/s sample rate
- Up to 250 Mpts / Ch
- 16 Channel Mixed Signal Capability

### **Rich Feature Set**

- Power Electronics
- Digital power management, power integrity
- Deeply embedded systems with sensors
- Power sequence testing
- Mechatronics

### **Exceptional Serial Data Tools**

- 12<sup>2</sup>C, SPI, UART
- CAN, LIN, FlexRay<sup>™</sup>, SENT
- Ethernet 10/100BaseT, USB 1.0/1.1/2.0, USB 2.0 HSIC
- Audio (I<sup>2</sup>S, LJ, RJ, TDM)
- MIL-STD-1553, ARINC 429
- MIPI D-PHY, DigRF 3G, DigRF v4
- Manchester, NRZ, MDIO, SpaceWire, SPMI

## **Ordering Information**

Model	Bandwidth	Channels	Standard Memory / Optional (per Ch)	Sample Rate
HD06034A / HD06034A-MS	350 MHz	4 / 4+16	50 Mpts / 250 Mpts	10 GS/s
HD06054A / HD06054A-MS	500 MHz	4 / 4+16	50 Mpts / 250 Mpts	10 GS/s
HD06104A / HD06104A-MS	1 GHz	4 / 4+16	50 Mpts / 250 Mpts	10 GS/s

Available Pr	Available Probes							
High Voltage Fiber Optically-isolated Probes		High-Voltage						
HVF0103	High Voltage Fiber Optic Probe, 60 MHz Bandwidth.	HVP120 PPE4KV	400 MHz, 1kV $V_{rms}$ High-Voltage Passive Probe 100:1 400 MHz 50 M $\Omega$ 4kV High-Voltage Probe					
Differential		PPE5KV	1000:1 400 MHz 50 MΩ 5 kV High-Voltage Probe					
HVD3102 HVD3106	1kV, 25 MHz High Voltage Differential Probe 1kV, 120 MHz High Voltage Differential Probe	PPE6KV	1000:1 400 MHz 50 MΩ 6 kV High-Voltage Probe					
HVD3206	2kV, 120 MHz High Voltage Differential Probe	Current	20A FO Mile Coment Disks AC/DC 20 A FO A Dules					
HVD3605 AP033	6kV, 100 MHz High Voltage Differential Probe 500 MHz Active Differential Probe	CP030 CP030A	30A; 50 MHz Current Probe – AC/DC; 30 A <sub>rms</sub> ; 50 A <sub>peak</sub> Pulse 30A, 50 MHz High Sensitivity Current Probe - AC/DC, 30 A <sub>rms</sub> , 50 A <sub>peak</sub> Pulse,					
ZD200	200 MHz Active Differential Probe	CP031	30A; 100 MHz Current Probe – AC/DC; 30 A <sub>rms</sub> ; 50 A <sub>peak</sub> Pulse					
ZD500	500 MHz Active Differential Probe	CP031A	30A, 100 MHz High Sensitivity Current Probe - AC/DC, 30 Arms, 50 Apeak Pulse,					
ZD1000	1 GHz Active Differential Probe	CP150	150A; 10 MHz Current Probe – AC/DC; 150 A <sub>rms</sub> ; 50 A <sub>peak</sub> Pulse					
ZD1500	1.5 GHz Active Differential Probe	CP500	500A; 2 MHz Current Probe – AC/DC; 500 A <sub>rms</sub> ; 700 A <sub>peak</sub> Pulse					
Differential Amplifiers		Active Voltage Rail Probe						
DA1855A	1 Ch, 100 MHz Differential Amplifier	RP4030	Power/Voltage Rail Probe. 4 GHz, ±30V offset, ±800mV					
Single-Ended		Probe Adapters						
ZS1500	1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe	TPA10	TekProbe to ProBus Probe Adapter					
ZS1000	1 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe	CA10	Programmable ProBus Current Adapter					