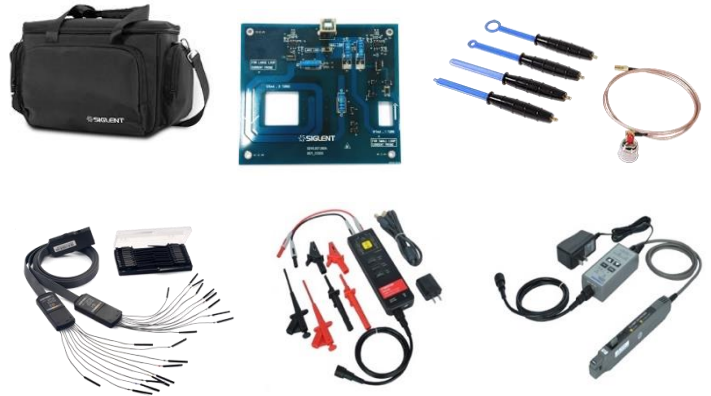


SDS2000 HD Series Power Bundles



Data Sheet

Power_Bundle_EN01A



SDS2000HD-PAES-1A SDS2000HD-PAES-1B SDS2000HD-PAES-2A SDS2000HD-PAES-2B SDS2000HD-PAES-2C

Product Overview

SIGLENT's SDS2000X HD series high-resolution digital storage oscilloscopes is a 2 GSa/s, 12-bit Analog-Digital Converters, and front ends with excellent noise floor performance.

The SDS2000X HD series is ideal for Power supply development, debugging, and testing. The 12-bit resolution of the SIGLENT HD oscilloscope provides the ability to gain new insights into power electronics circuitry. The improved vertical resolution helps tune snubbers, validate switching performance, and lower EMI more effectively. The 12-bit resolution significantly increases the measurement dynamic range allowing for simple validation of noise and transients, which can be detrimental to the connected embedded circuits. Having 12-Bit and deep memory enables the engineer to isolate and view the switching nodes in more detail. Gaining additional insights into power electronic circuits' performance ultimately gives the confidence needed, resulting in faster project completion.

The SDS2000 HD is available in bandwidths of 350 MHz, 200 MHz, and 100 MHz, has a maximum record length of 200 Mpts/ch, and displays four analog channels + 16 digital channels with mixed-signal analysis ability. A *500 MHz upgrade option is also available, limiting the SDS2000 HD to 2 channels + ext trigger while operating about 350 MHz.

The Power bundles are designed to provide what is needed for Power supply validation and testing. The bundles offer the essentials and more advanced configurations to enable Step Load Response and Bode Plot measurements. The bundles are designed to simplify order entry and provide an optimized testing configuration.

* 500 MHz: two Ch.+ Ext (CH1 OR CH2) AND (CH3 OR CH4)

Key Features

- Power Bundle - Essentials includes
 - 16 digital channels MSO License and probe
 - Function Generator license
 - Power analysis Package
 - Deskew fixture
 - Current probe
 - High Voltage differential probe
 - Nearfield probes
- Power Essentials Plus - Load Step Response
 - Power Bundle - Essentials
 - Linear Power Supply
 - Electronic Load
 - Bode Plot frequency response curves generator
 - * Injection transformer not included
- Serial bus support included: I²C, SPI, UART, CAN, LIN with optional CAN FD, FlexRay, I²S, MIL-STD-1553B, SENT and Manchester
- Segmented acquisition (Sequence) mode, dividing the maximum record length into multiple segments (up to 80,000), according to trigger conditions set by the user, with a very small dead time between segments to capture the qualifying event
- History waveform record (History) function, the maximum recorded waveform length is 80,000 frames
- Automatic measurements on 50+ parameters, supports statistics with histogram, track, trend, Gating measurement, and measurements on Math, History and Ref
- 2 Math traces (2 Mpts FFT, addition, subtraction, multiplication, division, integration, differential, square root, etc.), supports formula editor
- Abundant data analysis functions such as Search, Navigate, Digital Voltmeter, Counter, Waveform Histogram, Bode plot and Power Analysis
- High Speed hardware-based Average, ERES; High Speed hardware-based Mask Test function, with Mask Editor tool for creating user-defined masks
- 16 digital channels (optional)
- Built-in 25 MHz waveform generator
- Large 10.1" TFT-LCD display with 1024 * 600 resolution; Capacitive touch screen supports multi-touch gestures
- Interfaces include: USB Hosts, USB Device (USBTMC), LAN (VXI-11/Telnet/Socket), Pass/Fail, Trigger Out
- Built-in web server supports remote control over the LAN port using a web browser. Supports SCPI remote control commands. Supports external mouse and keyboard

Ordering Information

Model	Description
SDS2354X HD	12-bit, 350 MHz, 2 GSa/s, 4-CH, 200 Mpts/ch memory depth, 10.1" capacitive touch screen
SDS2204X HD	12-bit, 200 MHz, 2 GSa/s, 4-CH, 200 Mpts/ch memory depth, 10.1" capacitive touch screen
SDS2104X HD	12-bit, 100 MHz, 2 GSa/s, 4-CH, 200 Mpts/ch memory depth, 10.1" capacitive touch screen

Standard Accessories	Quantity
USB cable	1
Quick start	1
Passive probe (500 MHz)	1/channel
Certificate of calibration	1
Wireless mouse	1
Power cord	1

Optional Accessories	Part No.
I ² S trigger & decode (software)	SDS2000HD-I2S
MIL-STD-1553B trigger & decode (software)	SDS2000HD-1553B
FlexRay trigger & decode (software)	SDS2000HD-FlexRay
CAN FD trigger & decode (software)	SDS2000HD-CANFD
SENT trigger & decode (software)	SDS2000HD-SENT
Manchester decode (software)	SDS2000HD-Manch
100 MHz to 200 MHz bandwidth upgrade (software)	SDS2000HD-BW1T2
100 MHz to 350 MHz bandwidth upgrade (software)	SDS2000HD-BW1T3
100 MHz to 500 MHz bandwidth upgrade (software)	SDS2000HD-BW1T5
200 MHz to 350 MHz bandwidth upgrade (software)	SDS2000HD-BW2T3
200 MHz to 500 MHz bandwidth upgrade (software)	SDS2000HD-BW2T5
350 MHz to 500 MHz bandwidth upgrade (software)	SDS2000HD-BW3T5
ISFE isolated front end	ISFE
STB3 demo signal source	STB3
Power Essentials <ul style="list-style-type: none"> MSO License and probe Function Generator Power analysis Package Deskew fixture Current probe DC-100 MHz 50 A Nearfield probe 30 MHz ~ 3 GHz High Voltage 100 MHz differential probe BAG-S2 	SDS2000HD-PAES-1x includes 1 of each <ul style="list-style-type: none"> SDS2000HD-16LA SPL2016 SDS2000HD-FG SDS2000HD-PA DF2001A CP6030A SRF5030T DPB5700A or DPB5150A BAG-S2
Power Essentials Plus – Bode Plot and Load Step Response <ul style="list-style-type: none"> Power Essentials Bundle Linear Power Supply Electronic Load for Load Step response High Voltage Differential voltage Probe (7 kV or 1.5 kV) Bode Plot frequency / Load Step response curves Generator (200 MHz or 120 MHz) 	SDS2000HD-PAES-2x includes: 1 of each <ul style="list-style-type: none"> SDS2000HD-PAES- 1x SPD3303X SDL1030X DPB5700A or DPB5150A SDG6022X or SDG2122X

	Power Essentials		Power Essentials Plus Bode Plot and Load Step Response		
	SDS2000HD-PAES-1A	SDS2000HD-PAES-1B	SDS2000HD-PAES-2A	SDS2000HD-PAES-2B	SDS2000HD-PAES-2C
DPB5700A 100 MHz diff. 7KV	✓		✓		
DPB5150A 100 MHz diff. 1.5KV		✓		✓	✓
SDG6022X 200 MHz; 2 Ch. Arb			✓		✓
SDG2122X 120 MHz; 2 Ch. Arb				✓	

About SIGLENT

SIGLENT is an international high-tech company, concentrating on R&D, sales, production and services of electronic test & measurement instruments.

SIGLENT first began developing digital oscilloscopes independently in 2002. After more than a decade of continuous development, SIGLENT has extended its product line to include digital oscilloscopes, isolated handheld oscilloscopes, function/arbitrary waveform generators, RF/MW signal generators, spectrum analyzers, vector network analyzers, digital multimeters, DC power supplies, electronic loads and other general purpose test instrumentation. Since its first oscilloscope was launched in 2005, SIGLENT has become the fastest growing manufacturer of digital oscilloscopes. We firmly believe that today SIGLENT is the best value in electronic test & measurement.

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