

Phosphor oscilloscope

Siglent Technologies presented the 3rd generation of their 2000 series of oscilloscopes. It is designed for all general purpose tasks in the lab and supports Classical CAN and CAN FD.



(Source: Siglent)

Five years after the introduction of the SDS2000X, the company has continued to implement customer feedback and now presented the SDS2000X Plus series. The Plus series includes four models: One two channel model with 100 MHz bandwidth (software upgradeable to 350 MHz) and three four-channel models, with bandwidths of 100 MHz, 200 MHz, and 350 MHz. In addition, the 350 MHz models can be upgraded to 500 MHz (max bandwidth available on to two independent channels). Standard functions included: Serial bus trigger and decoding for Classical CAN, CAN FD, [LIN](#), UART, I²C, SPI, I²S, Flexray, and MIL-1553B decoding as well as maximum bandwidths to help the SDS2000X Plus grow with test needs.

The latest oscilloscope series includes a 10-inch touch screen, external mouse, and keyboard control and the built-in webserver reduces the learning curve to a minimum, said the company. Furthermore, the product offers a 10-bit acquisition mode that uses oversampling to achieve higher resolution. Combined with the lowest

vertical setting of 500 μ V/div, the X Plus can root out the smallest signal details.

The four channel models come with two 2 GS/s ADCs and 2x 200 mega points memory modules. This enhanced memory depth ensures a high sample rate at larger time/div settings, the company explained.

The sequence mode boosts the waveform capture rate up to 500 000 wfm/s. This helps to maximize waveform capture rate and avoid missing critical events. This reduces oscilloscope “dead time” by a factor of > 4 times lets the engineer find rare signal anomalies faster. The special mode also enables an optimized use of the memory.

The built-in 50 MHz function generator option together with the free bode plot function delivers convenient and low cost frequency analysis without investing in any other instrumentation. If users are developing switch mode power supplies (SMPS), bode plots are a convenient way to measure phase and gain margin of feedback loop systems and help to determine the stability of the design.

The X Plus series also features a power analysis option that delivers automatic on-screen performance analysis of common power supply characteristics.

[CW](#)