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SIGLENT TECHNOLOGIES

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01

COMPANY INFO

Siglent Profile

- **Global leader in electronic test and measurement**

Products include digital oscilloscopes, signal generators, digital multi-meters, power supplies, spectrum analyzers, vector network analyzers, DC loads and other general purpose test instrumentation.

- **The 1st one listed on A-share market in China**

Siglent has become the first company in the general electronic test and measurement instrument industry to list on the A-share market in China.

- **Exports to 80+ countries & regions**

The leading manufacturer of general purpose test & measurement instrumentation in China.



History

2002

Siglent began a **preliminary study** of digital oscilloscopes

2007

Siglent **established** in Shenzhen, China

2014

Siglent **America** & Siglent **Europe** established.

2017

Siglent's SDS1000X-E was chosen as **Best Seller** on Amazon

2021

Siglent, as the **first one** in the general electronic test and measurement industry listed on the **A-share** market in China.

2023

Siglent introduced the **40 GHz** RF signal analyzer SSG6000A series and the **4 GHz, 12-bit** high-resolution oscilloscope SDS7000A series

2024

2019

Siglent's SDS5000X oscilloscope earned the **World Electronics Achievement Award(WEAA)**

2022

Siglent Introduced **the first 12-bit** high-resolution oscilloscope SDS2000X HD series

Siglent introduced three new 12-bit oscilloscopes, **SDS800X HD, SDS1000X HD, SDS3000X HD** and a new portable Vector Network Analyzer, **SHN900A**

Distribution System



Siglent headquartered in **Shenzhen, China**, and R&D Center Branch located in **Chengdu, China**.
There are three international branch offices in **Ohio, United States, Augsburg, Germany** and **Tokyo, Japan**.

| R&D Center



15% | About 15% of annual revenue invested into R&D every year

50% | Professional engineers in the R&D team account for about half of the company's total staff.

35% | More than 1/3 of engineers have master's degree or above

500 | More than 500 employees worldwide

Quality of Products

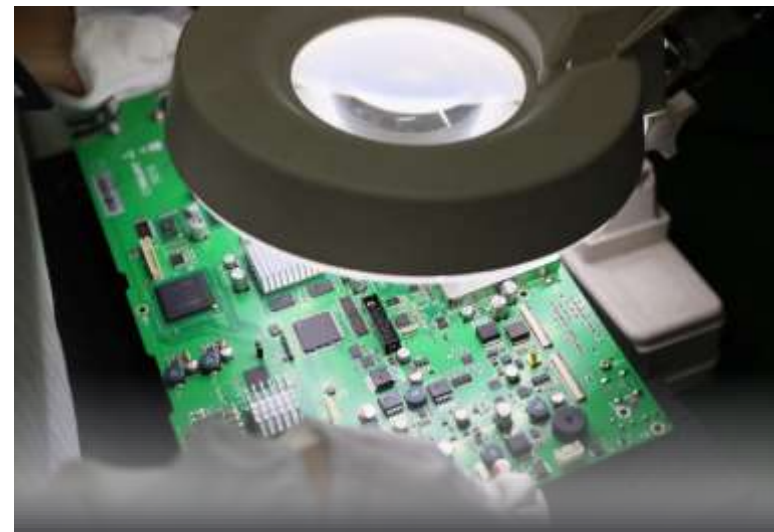
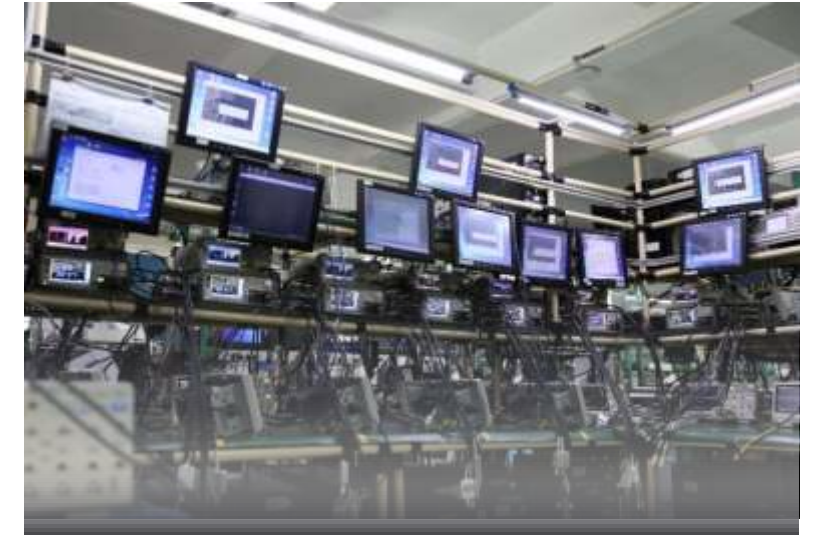


- SIGLENT is ISO9001 : 2015 and ISO14001 : 2015 certified for its product quality and environmental management programs.
- CE & TUV certificated for SIGLENT product family.
- CNAS accredited for SIGLENT Test & Measurement laboratory.

Quality of Products

Standardized management

Modern standard automation workshop
Integrated supply chain system
Professional production system



Rigorous testing

Reliability testing
Functional testing
Temperature testing

Honors



Best Application
Award

Video / Visual Internet of
Things Conference



TOP 5 Innovative
Company

EDN Magazine



World Electronics
Achievement

ASPENCORE



ACE Awards Finalist

EE Times and EDN



R&D 100 Finalist

R & D 100 Awards
Ceremony and Technical
Conference



02

MARKETING

Sales Data

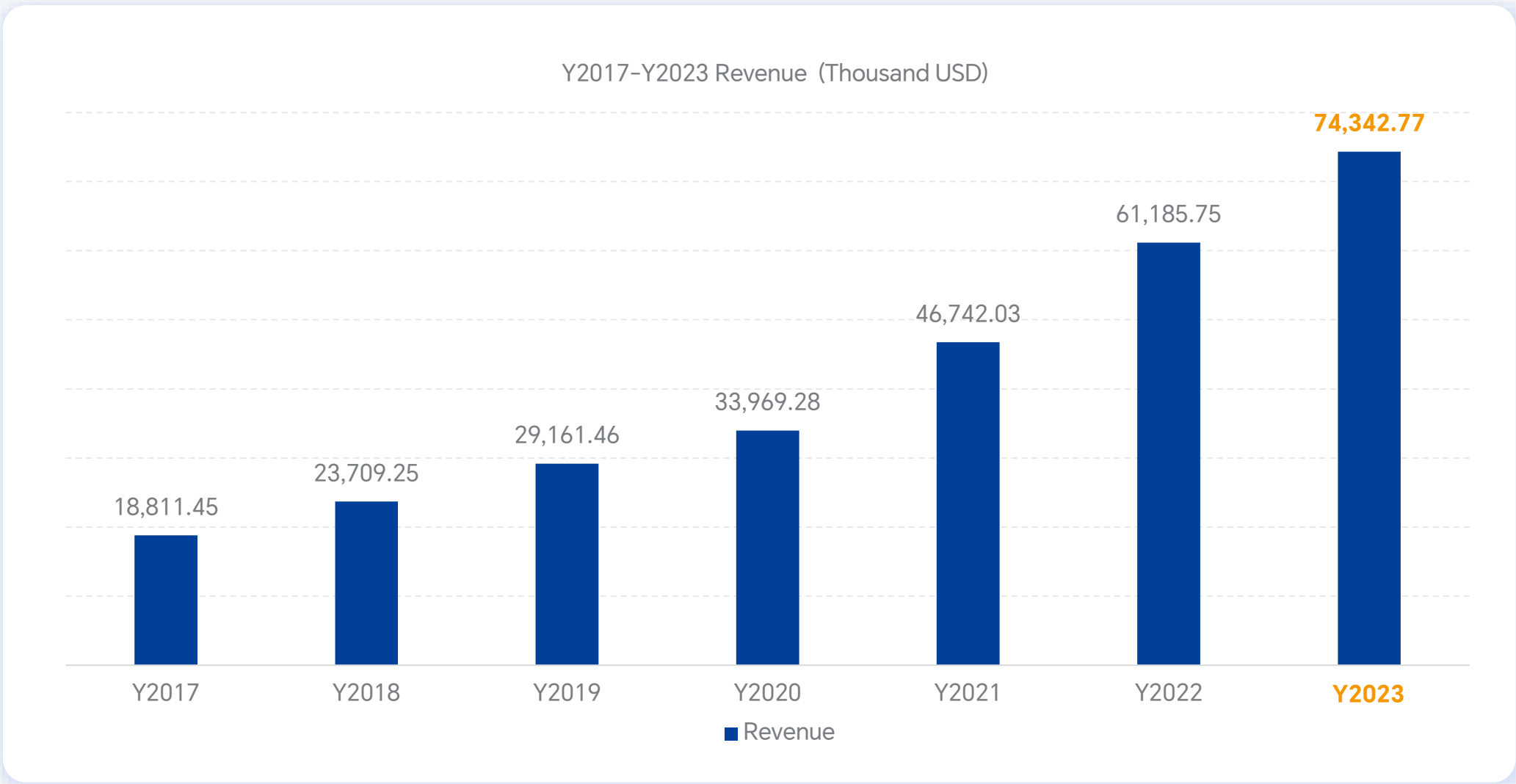
SIGLENT has the fastest growth rate of any major competitor in the world over the last 5 years of published data.

Sales growth rate in 2023
as compared to 2022

21.50% ↑

Sales compound growth
rate in 2017-2023

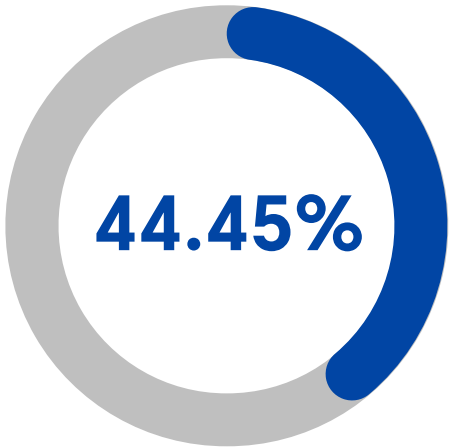
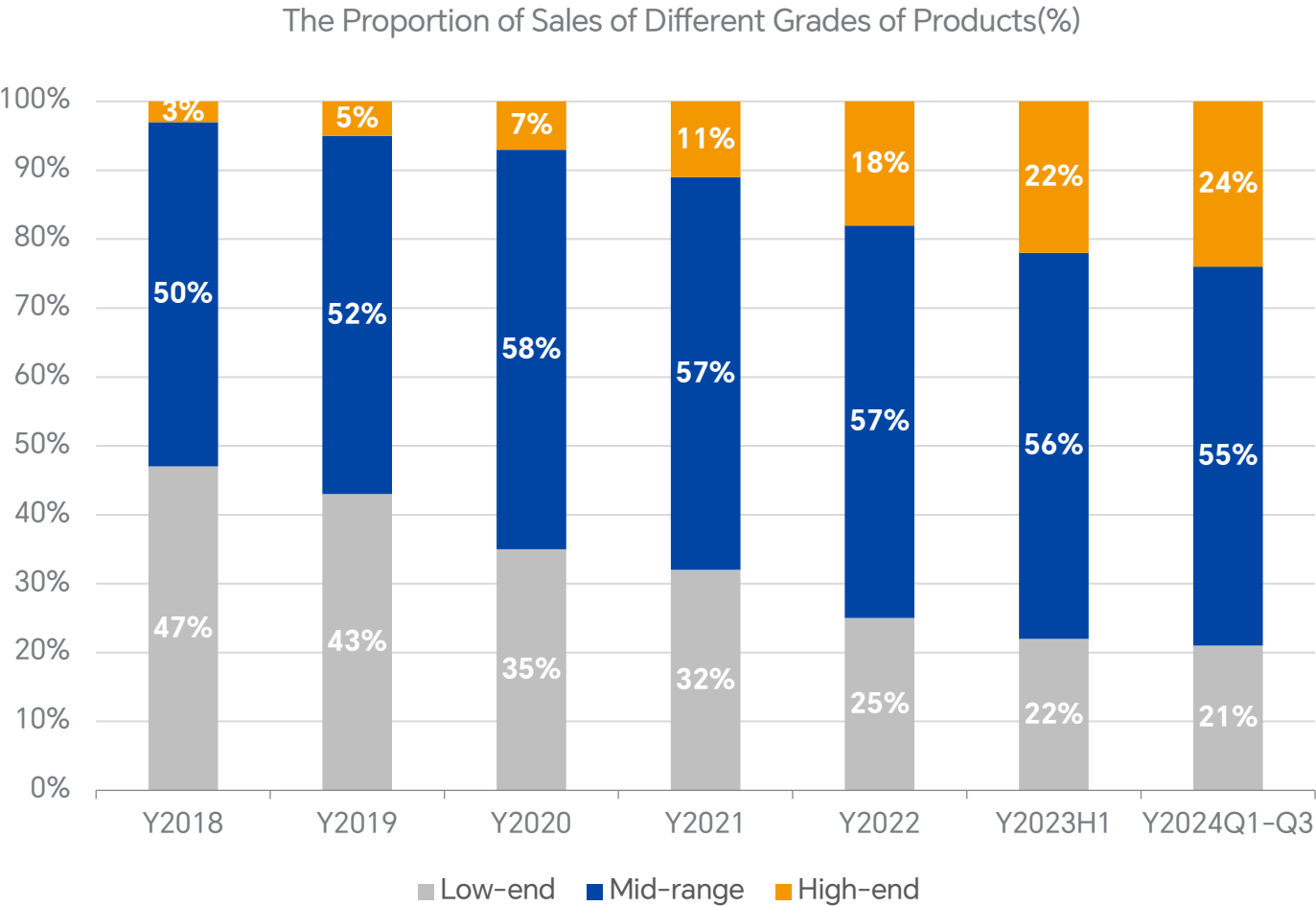
25.80% ↑



* 1 USD = 6.5 CNY

Sales Data

SIGLENT has launched more mid- to high-end products in recent years, with the proportion of mid- to high-end products increasing year by year.



Mid-range



High-end

The sales of mid-range products increased by 44.45% in 2023H1 compared to 2022H1, while the sales of high-end products grew by 101.33% in the same period.

Shows & Seminars

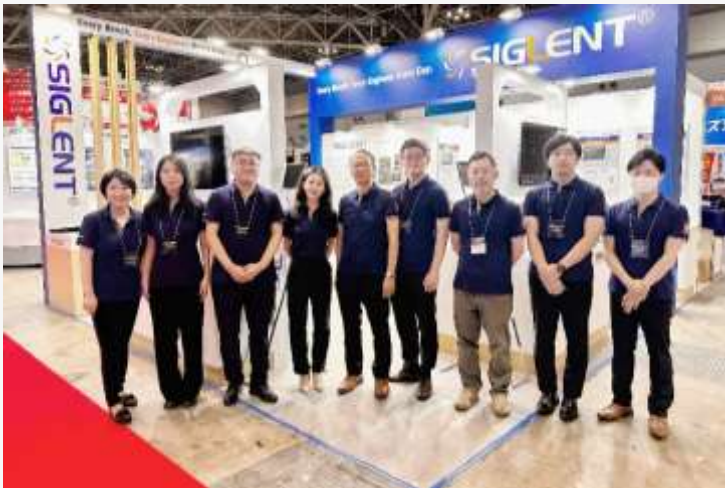
SIGLENT attends more than **80** international Exhibitions & Seminars each year.



Europe



North America



AAAS



China



03

APPLICATIONS

Communication

SIGLENT provides test and measurement solutions including Bluetooth, WIFI, 4G, 5G, ZigBee analysis, custom ARB waveforms for receiver testing, and 5G, 4G signal OTA analysis.

5G Signal Test

- Signal quality and beam performance verification
- Interference Troubleshooting
- Antenna and feeder testing

Bluetooth Test

- Transmit Power Test
- Frequency Error Test
- Frequency Hopping Pattern Test

WIFI Test

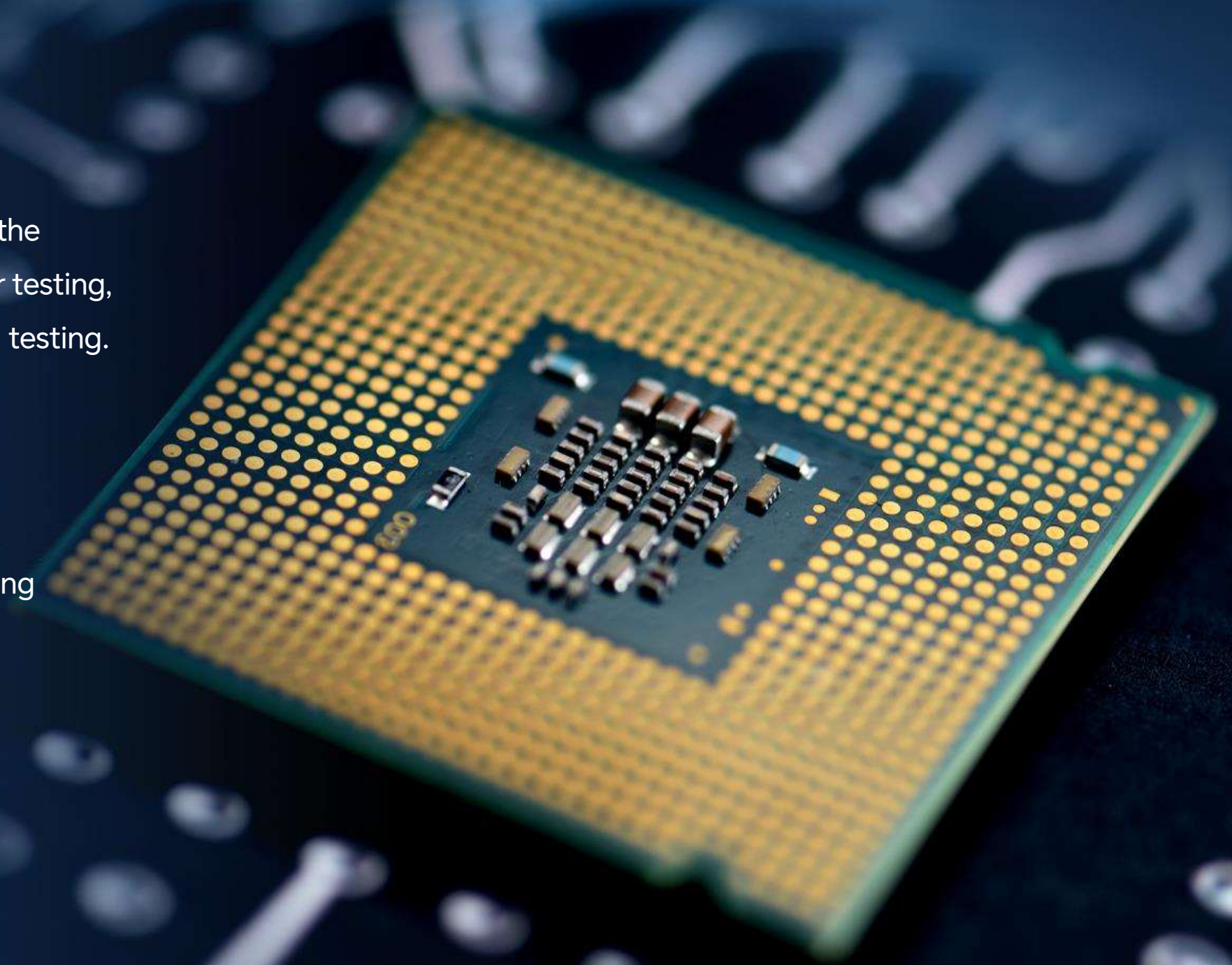
- Modulation Quality Test
- Transmit Template Test
- Adaptive frequency conversion test



Semi-conductor

SIGLENT provides solutions for all aspects of testing in the semiconductor industry, such as material testing, wafer testing, package testing, chip parameter testing and functional testing.

- Wafer Testing
- Silicon Carbide (SiC)/Gallium Nitride (GaN) Switching Characteristics Testing
- MOSFET/IGBT Switching Characteristics Testing
- IV Test
- USB Tx Conformance Test
- Material Test
- MIPID-PHY conformance test



Automobile Electronic

SIGLENT provides comprehensive solutions for the automotive industry, ranging from sensors, in-vehicle radar, in-vehicle networks, power semiconductors, motors, batteries, smart cockpits to charging piles, EMI/EMC, and V2X .

- Automotive Sensor Testing
- Smart Cockpit Testing
- In-vehicle Network Test
- Charging Post Test
- Automotive Power Semiconductor Testing
- EMI/EMC Testing
- Tyre Pressure Test
- In-vehicle Radar Test
- Automotive Battery Testing
- Automotive Motor Testing



New Energy

SIGLENT provides high-efficiency solutions for the new energy industry, from battery management systems to motor control, from intelligent driving to connected car technology, from motors to photovoltaic inverters to frequency converters.

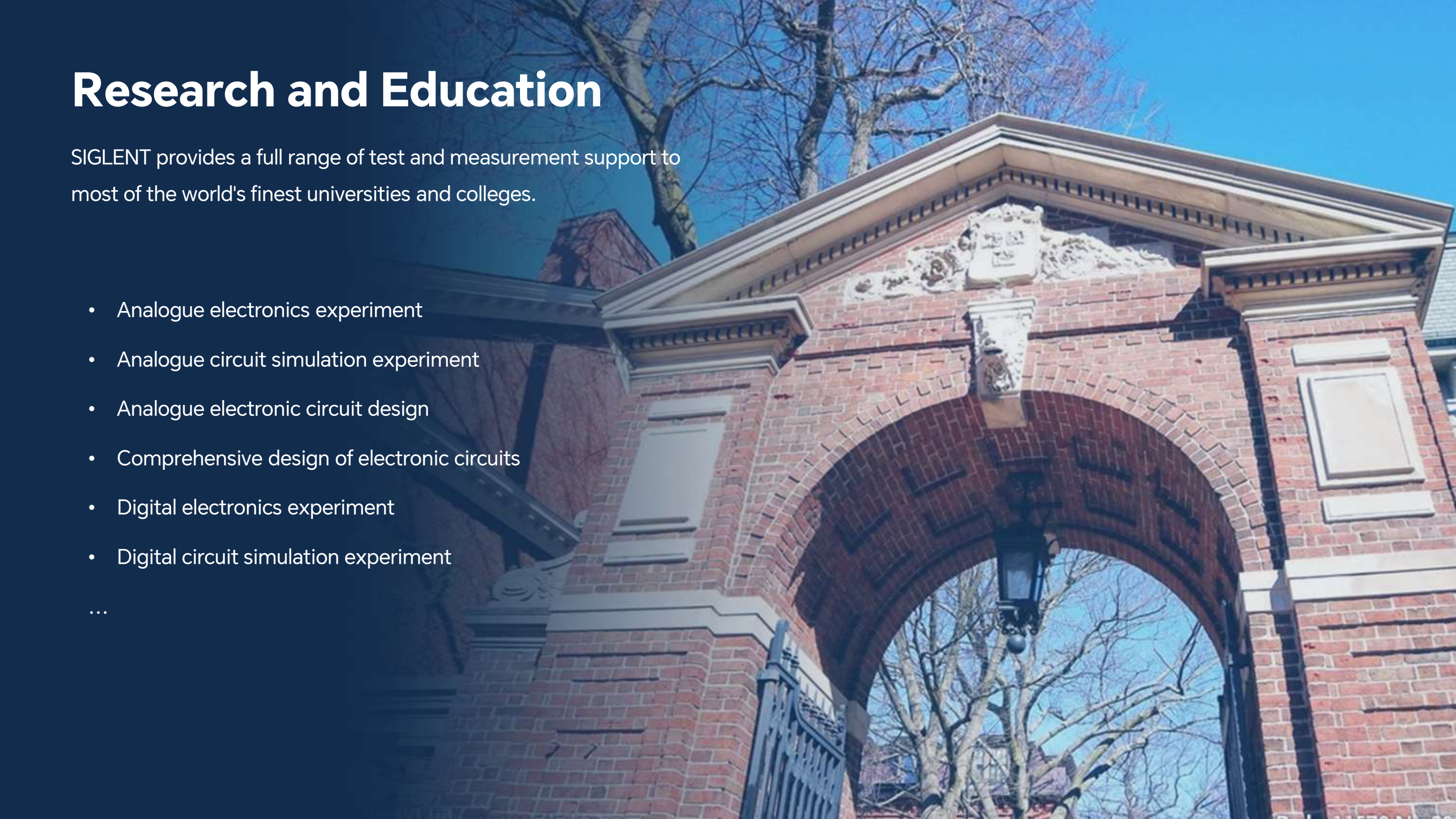
- Power Battery Testing
- Drive Motor Testing
- On-Board Charger OBC Testing
- Portable Energy Storage Testing
- Photovoltaic Inverter IV Characteristics/Efficiency Testing
- AC/DC charging post testing
- IEC Harmonics Testing
- High and Low Voltage Ride Through Testing
- Electromagnetic Compatibility EMC Testing



Research and Education

SIGLENT provides a full range of test and measurement support to most of the world's finest universities and colleges.

- Analogue electronics experiment
- Analogue circuit simulation experiment
- Analogue electronic circuit design
- Comprehensive design of electronic circuits
- Digital electronics experiment
- Digital circuit simulation experiment
- ...



| End User (partial)



Mercedes-Benz



Volkswagen



HONDA



TOYOTA



Stanford University



Massachusetts Institute
of Technology



Harvard University



UNIVERSITY OF
CAMBRIDGE



04

PRODUCTS

Products



OSCILLOSCOPES

SDS (HD) series oscilloscopes
SHS series handheld oscilloscopes



SIGNAL GENERATORS

SSG series RF generators
SDG series waveform generators



NETWORK ANALYZERS

SNA series vector network analyzers
SVA series vector network analyzers
SHN series handheld VNA

SPECTRUM ANALYZERS

SSA series spectrum analyzers
SVA series spectrum analyzers
SHA series handheld spectrum analyzers






OTHER INSTRUMENTS

SPD/SPS series power supplies
SDM series digital multi-meters
SDL series electronic loads



SDS (HD) series oscilloscopes SHS series handheld oscilloscopes		SSG series RF generators SDG series waveform generators		SNA/SVA series vector network analyzers SHN series handheld VNA	
					
SDS7000A	3/4/6 GHz, 12-bit	SSG6000A	13.6/20/40 GHz	SNA6000A	100 k - 13.5/26.5 GHz
SDS6000A	500 M/1 GHz/2 GHz	SSG5000A	13.6/20 GHz	SNA5000A	9 k - 4.5/8.5 GHz, 100 k - 13.5/26.5 GHz
SDS6000L	500 M/1 GHz/2 GHz, 8 CH	SSG5000X	4/6 GHz	SVA1000X	9 k -1.5/3.2/7.5 GHz
SDS5000X	350/500 M/1 GHz	SSG3000X	2.1/3.2 GHz	SHN900A	30 kHz~14/20/26.5 GHz
SDS3000 / 2000 1000 / 800 X HD	70 MHz ~ 1 GHz, 12-bit	SDG7000A	350/500 MHz/1 GHz		
SDS2000X Plus	100/200/350 MHz	SDG6000X	200/350/500 MHz		
SDS2000X-E	200/350 MHz	SDG2000X	40/80/120 MHz		
SDS1000X-E	100/200 MHz	SDG1000X Plus	25/30/60 MHz		
SDS1000X-U	100 MHz	SDG1000X	30/60 MHz		
SDS1000CML+/DL+	70/100/150 MHz	SDG800	5/10/30 MHz		
SHS800X/1000X	100/200 MHz				

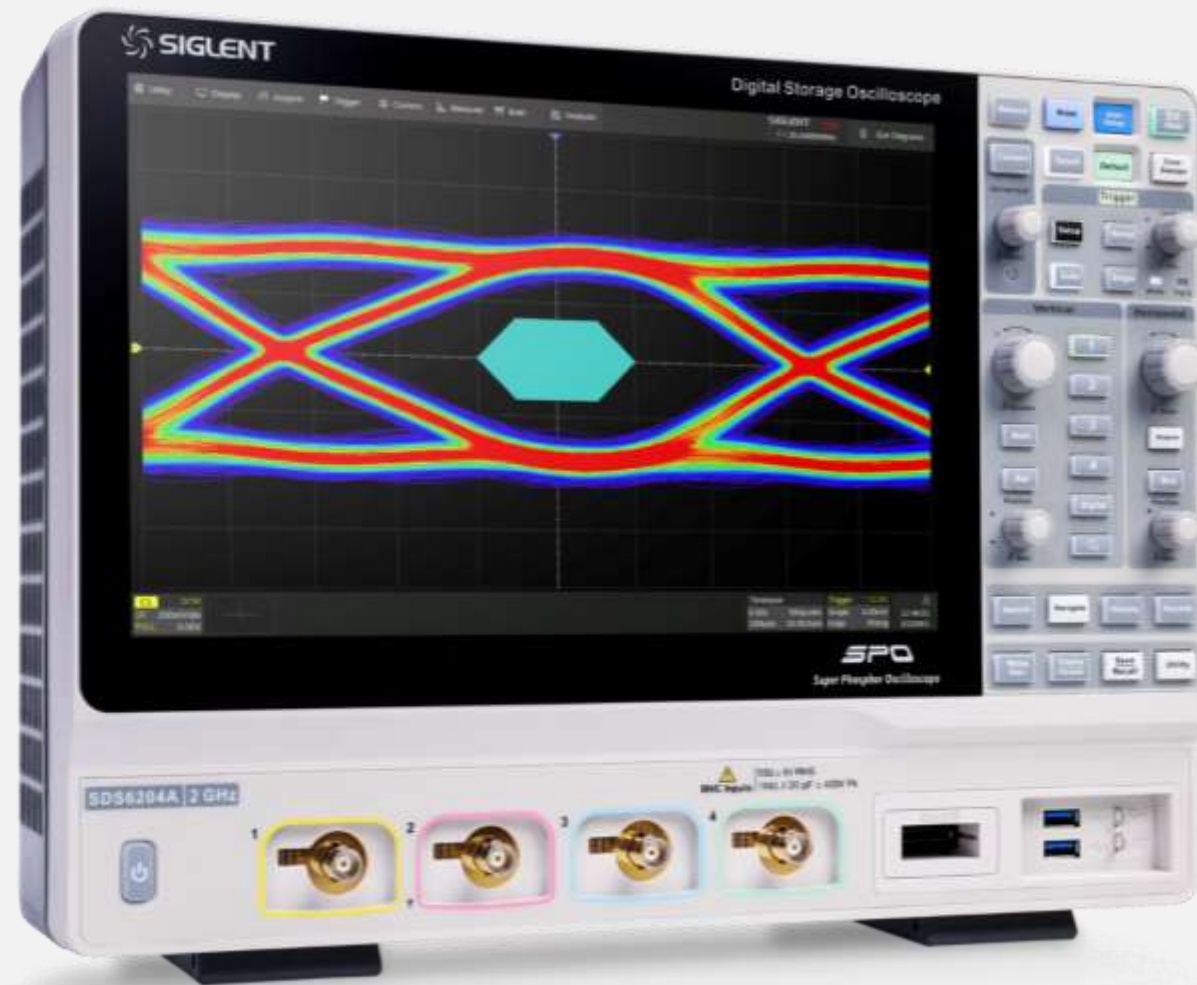
SSA/SVA series spectrum analyzers SHA series handheld spectrum analyzers		SPD/SPS series power supplies		SDM series digital multi-meters SDL series electronic loads	
					
SSA5000A	9 k - 13.6/26.5 GHz	SPS5000X	40V,50V,80V,160V 180W,360W,720W,1080W	SDM3065X	6½ digits reading resolution
SSA3000X Plus	9 k - 1.5/2.1/3.2/7.5 GHz	SPD4000X	15V, 30V, 32V (Max.) 3.2A, 6A, 10A (Max.)	SDM3055	5½ digits reading resolution
SSA3000X-R	9 k - 3.2/5.0/7.5 GHz	SPD3303X / X-E	32 V/3.2 A * 2 2.5 V/3.3 V/5 V/3.2 A 220W	SDM3045X	4½ digits reading resolution
SSA3000X	9 k - 2.1/3.2 GHz	SPD3303C	30 V/3.2 A * 2 2.5 V/3.3 V/5 V/3.2 A 220 W	SDL1000X	150 V/30 A, 200/300 W
SVA1000X	9 k -1.5/3.2/7.5 GHz	SPD1000X	16 V/8 A, 128 W 30 V/5 A 150 W		
SHA850A	9 k - 3.6/7.5 GHz				



SDS7000A

High Resolution Oscilloscope

- Bandwidth up to 6 GHz, 12-bit ADC resolution
- Real-time sampling rate up to 20 GSa/s
- Record Length up to 1 Gpts
- Waveform capture rate up to 1,000,000 wfm/s
- Eye diagram, Jitter analysis, Compliance Test, Power analysis, Bode plot, decode, MSO, AWG
- SAP5000D, 5 GHz High-speed differential probe



SDS6000A

Digital Storage Oscilloscope

- 500 MHz, 1 GHz, 2 GHz models
- 5 GSa/s (10 GSa/s ESR) ADC per analog channel
- Record Length up to 500 Mpts
- Waveform capture rate up to 750,000 wfm/s (Sequence mode)
- Eye diagram, Jitter analysis, Power analysis, Bode plot, decode, MSO, AWG
- SAP2500, SAP2500D, 2.5 GHz active single ended and differential probes



SDS6000L

Low Profile Oscilloscope

- 2 GHz, 1 GHz, 500 MHz models
- 8/4 analog channels + 1 external trigger
- 5 GSa/s (10 GSa/s ESR) per channel
- Record Length up to 500 Mpts
- SYNC-64 to Synchronize 64 x SDS6000L
- Waveform capture rate up to 750,000 wfm/s (Sequence mode)



SDS3000X HD

High Resolution Oscilloscope

- 350 MHz, 500 MHz, 1GHz models
- 12-bit high resolution
- Sampling rate up to 4 GSa/s
- Memory depth up to 400 Mpts
- Waveform capture rate up to 890,000 wfm/s (Sequence mode)
- Noise floor as low as 125 μ Vrms at 1 GHz full bandwidth



12-bit

SDS2000X HD

High Resolution Oscilloscope

- 200, 350 MHz models
- 12-bit High Resolution
- Record Length up to 200 Mpts
- Waveform capture rate up to 500,000 wfm/s (Sequence mode)
- Sampling rate up to 2 GSa/s (interleaving mode)
- Serial bus triggering and decoder, supports protocols I2C, SPI, UART, CAN, LIN, CAN FD, FlexRay, I2S, MIL-STD-1553B, SENT and Manchester



SDS1000X HD

High Resolution Oscilloscope

- 100 MHz, 200 MHz bandwidth models
- 12-bit high resolution
- Sampling rate up to 2 GSa/s
- Memory depth up to 100 Mpts
- Waveform capture rate up to 500,000 wfm/s (Sequence mode)
- Noise floor as low as 70 μ Vrms at 200 MHz full bandwidth



12-bit

SDS800X HD

High Resolution Oscilloscope

- 70 MHz, 100 MHz, 200 MHz bandwidth models
- 12-bit high resolution
- Real-time sampling rate up to 2 GSa/s
- Memory depth up to 50/100 Mpts
- Waveform capture rate up to 500,000 wfm/s (Sequence mode)
- 7-inch touch screen, support for external mouse and keyboard



SDG7000A

Arbitrary Waveform Generator

- 1 GHz maximum bandwidth
- Dual channel differential/single-ended output
- 5 GSa/s sample rate and 14 -bit vertical resolution
- Memory depth of 512 Mpts
- Segment editing /playback functions
- 16-bit LVDS/LVTTL digital bus output
- 5 inch touch screen



SDG1000X Plus

Function/Arbitrary Waveform Generators



- Dual output channels, maximum 60 MHz output frequency, maximum 20 Vpp output amplitude
- 1 GSa/s Sampling rate, 16-bit vertical resolution
- Arbitrary wave length 8 Mpts/CH
- Maximum 40 Mbps PRBS output
- Multi-pulse output function
- 4.3-inch display



SNA6000A

Vector Network Analyzer



- Frequency Range: 100 kHz to 13.5 GHz and 100 kHz to 26.5 GHz
- Range of IFBW: 1 Hz to 10 MHz
- Dynamic Range: 135 dB
- Setting Range of Output Level: -55 dBm to +10 dBm
- Standard Bias-Tee connection and pulse hardware
- 4-port models include standard second source
- Jumpers / DRA (Source, Ref and Meas) standard on SNA61xxA models



SHN900A

Portable Vector Network Analyzer



- Standard VNA and CAT mode, Optional SA mode
- Frequency Range: 30 kHz~26.5 GHz
- Range of IFBW: 10 Hz~3 MHz
- Dynamic Range: 110 dB (typ.)
- Standard Bias-Tee, 4h Working Time
- Standard GPS, Time and Location Information Saving
- 2ports: S-parameters, Time Domain, Pulse Measurement



SSA5000A

Spectrum Analyzer

- Frequency Range from 9 kHz up to 13.6 /26.5 GHz
- -165 dBm/Hz Displayed Average Noise Level (Typ.)
- -105 dBc/Hz@1 GHz, 10 kHz offset SSB Phase Noise (Typ.)
- 25 MHz/40 MHz Analysis Bandwidth
- Analog Modulation Analysis and Vector Digital Modulation Analysis



SSA3000X-R

Real-time Spectrum Analyzer

- Frequency Range from 9 kHz up to 3.2 GHz / 5.0 GHz / 7.5 GHz
- VNA and DTF functions
- -165 dBm/Hz Displayed Average Noise Level (Typ.)
- -98 dBc/Hz @10 kHz Offset Phase Noise (1 GHz, Typ.)
- Level Measurement Uncertainty < 0.7 dB (Typ.)
- Up to 40 MHz Real Time Analysis Bandwidth Option



SVA1000X

Spectrum & Vector Network Analyzer

- Vector Network Analysis from 100 kHz ~ 7.5 GHz (Standard)
- Distance-to-fault (Optional)
- Frequency Range from 9 kHz to 7.5 GHz
- -165 dBm/Hz Displayed Average Noise Level (Typ.)
- -98 dBc/Hz @10 kHz Offset Phase Noise (1 GHz, Typ.)
- 1 Hz Minimum Resolution Bandwidth (RBW)



SHA850A

Handheld Spectrum & Vector Network Analyzer

- Standard SA and CAT mode, optional VNA mode
- Frequency Range from 9 kHz up to 7.5 GHz
- -165 dBm/Hz Displayed Average Noise Level (Typ.)
- -104 dBc/Hz @1 GHz, 10 kHz offset SSB Phase Noise (Typ.)
- 114 dB Dynamic Range in VNA mode (Typ.)



SPS5000X

wide range programmable Switching DC Power Supply

- Rated Output Voltage: 40V, 50V, 80V, 160V
- Rated Output Power: 180W, 360W, 720W, 1080W
- Wide range of output voltage and current, high efficiency power supply
- CV, CC priority mode selection, better protection of equipment under test
- Load transient recovery time (Load change from 50~100%) <1ms



SPD4000X

Programmable Linear DC Power Supply



- Four independent outputs
- Max. Voltage: 15V, 30V, 32V , Max. Current: 3.2A, 6A, 10A
- Rated output power: 240W, 285W, 400W
- 5-digit voltage and current display with minimum resolution of 1mV, 1mA
- Clear graphical interface with waveform and timer display modes
- Support remote voltage compensation sense function



SDM3065X

6 1/2 Digital Multimeters

- Real 6½ digits readings resolution (2,200,000 counts)
- 1 Gb Nand flash size, Mass storage configuration files and data files
- True-RMS AC Voltage and AC Current measuring
- Standard interfaces: USB Device, USB Host, LAN (Optional Accessories: USB-GPIB Adapter)
- Optional Scanner for multipoint measurements (-SC part number)



SDL1000X/X-E

Programmable DC Electronic Load

- DC 150 V/30 A, maximum total power 300 W/200 W
- 4 static modes / Dynamic mode: CC/CV/CR/CP
- Min. readback resolution: 0.1 mV, 0.1 mA
- Adjustable current rise time range: 0.001 A/us~2.5 A/us

THANKS

● EVERY BENCH. EVERY ENGINEER. EVERY DAY.



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