

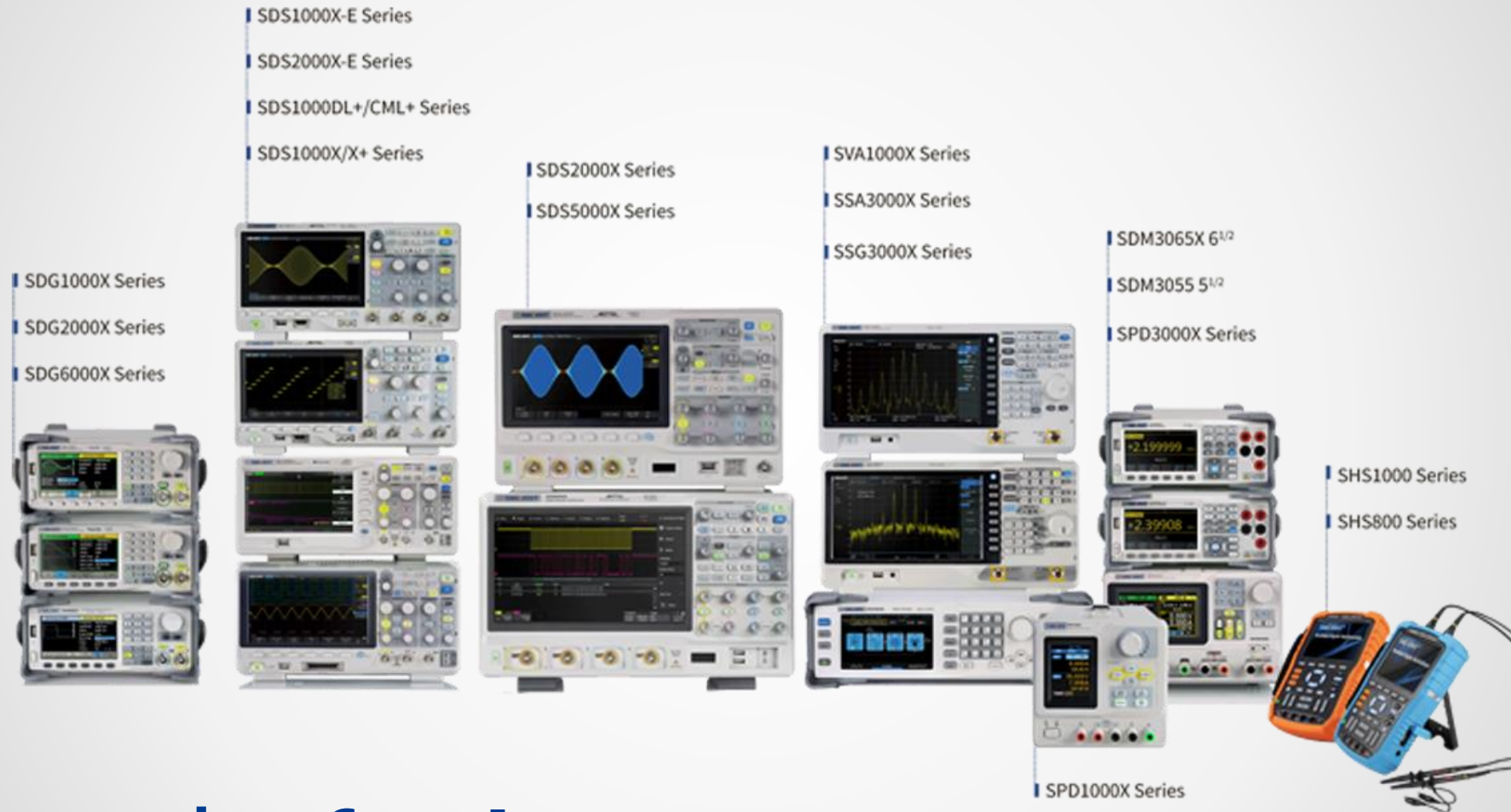
An abstract graphic of a circuit board with glowing blue and purple lines on a dark blue background, filling the top half of the slide.

SIGLENT TECHNOLOGIES

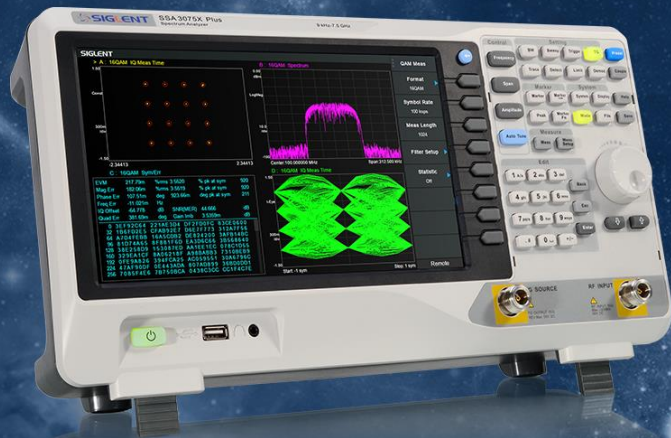
The Best Value in Electronic Test & Measurement



New Product Introduction



Public 25th of February 2020



**FOLLOW OUR JOURNEY TO
HIGHER PERFORMANCE**

SSA3000X Plus Spectrum Analyzers

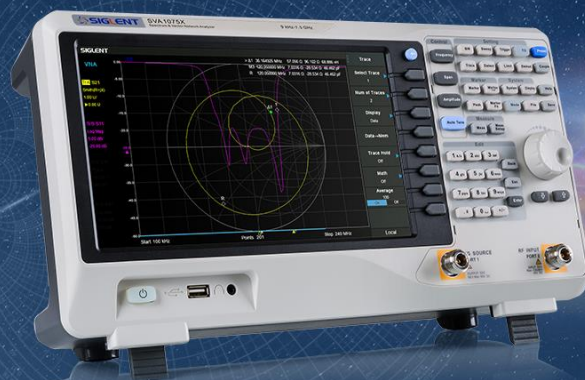
- Frequency range: 9 kHz - 7.5 GHz
- DANL down to -165 dBm/Hz
- RBW down to 1 Hz
- Extendable with EMI filters and QP detector
- Modulation Analysis function (opt.)

SIGLENT[®] SSA3075X Plus

Spectrum Analyzer

SIGLENT[®] SVA1075X

Spectrum &
Vector Network Analyzer



SVA1000X Spectrum & Vector
Network Analyzers

- Spec. An. Freq. Range: 9 kHz - 7.5 GHz
- VNA Freq. Range: 100 kHz - 7.5 GHz
- Measure S_{11} / S_{21}
- Antenna Test and Cable Fault Location
- Touch Screen and Web control

**BRIDGE THE
GAP TO
YOUR SOLUTION**

SVA1075X

Spectrum & Vector Network Analyzer

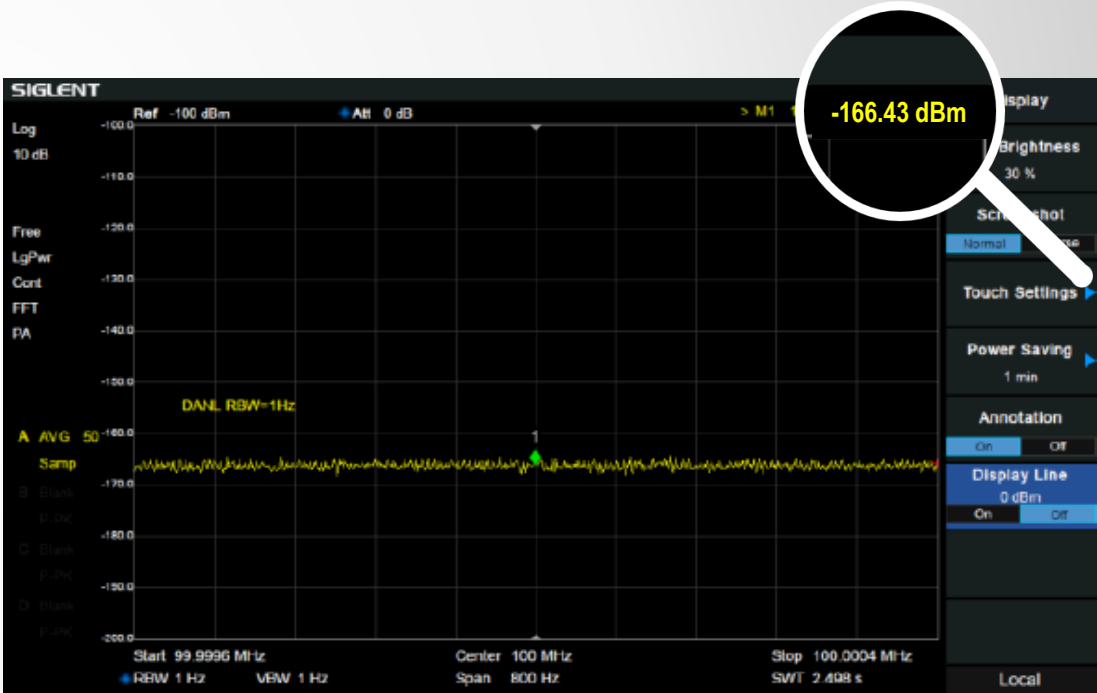


SVA1000X Series

What does the Spectrum & Network Analyzer Series deliver?

1.) Spectrum Analyzer with superb base Specifications

Model Spec.	SVA1015X	SVA1032X	SVA1075X
Spectrum Analyzer Bandwidth	9 kHz - 1.5 GHz	9 kHz - 3.2 GHz	9 kHz - 7.5 GHz
DANL	-156 dBm/Hz	-161 dBm/Hz	-165 dBm/Hz
RBW	1 Hz - 1 MHz		1 Hz - 3 MHz
Phase Noise	< -98 dBc/Hz@1 GHz, 10 kHz offset		
Total Amplitude Accuracy	<1.2 dB	<0.7 dB	
Tracking Generator	Factory installed at no charge		
Tracking Generator Bandwidth	5 MHz - 1.5 GHz	100 kHz - 3.2 GHz	100 kHz - 7.5 GHz

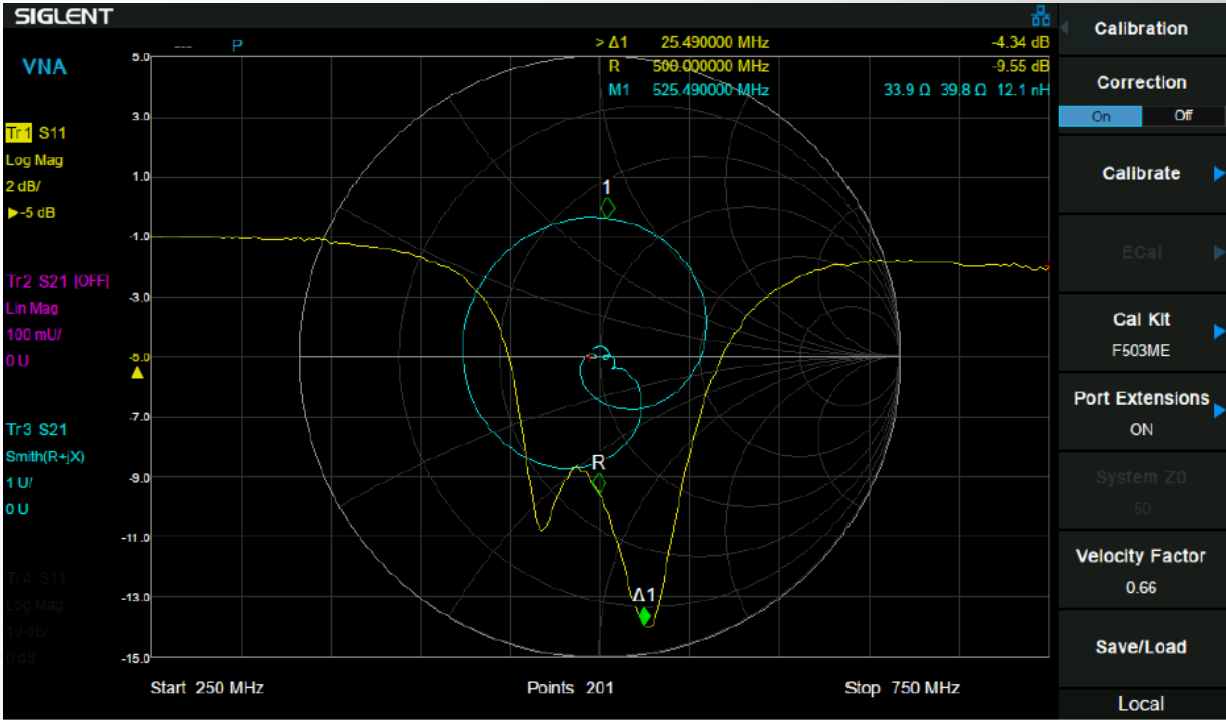


SVA1000X Series

What does the Spectrum & Network Analyzer Series deliver?

2.) Vector Network Analyzer (VNA) **Standard!**

Model Spec.	SVA1015X	SVA1032X	SVA1075X
VNA Bandwidth	10 MHz - 1.5 GHz	100 kHz - 3.2 GHz	100 kHz - 7.5 GHz
Measurements	S11 / S21		
Stimulus Power	0 dBm	-5 dBm	0 dBm
S11 Directivity (after cal)	>40 dB		
S21 Dynamic Range	Up to 90 dB		
Formats	Lin Mag, Log Mag, Phase, Group Delay, SWR Smith Chart (Lin/Log Phase, Real/Imag, R+jX, G+jB) Polar Chart (Lin/Log Phase, Real/Imag)		
Traces	4 traces, trace memory, trace math, trace hold, trace overlap		
Cursors	(6+ reference cursors) * 4 traces		
Sweep Points	101 ~751, default 201		

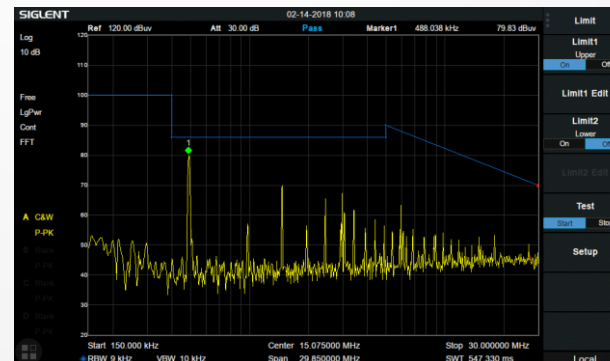
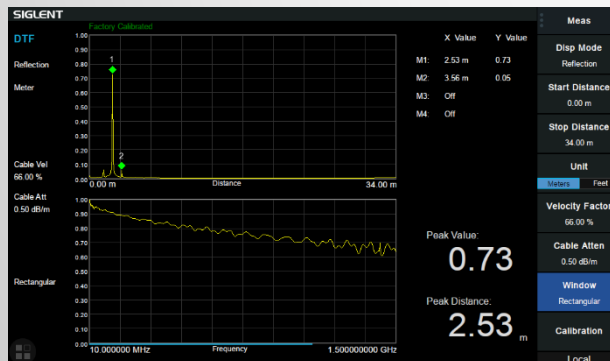
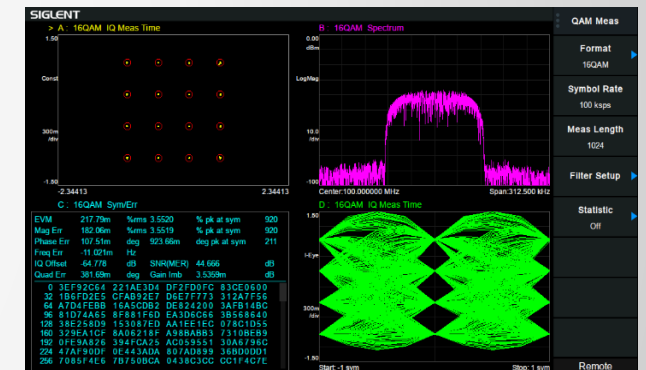
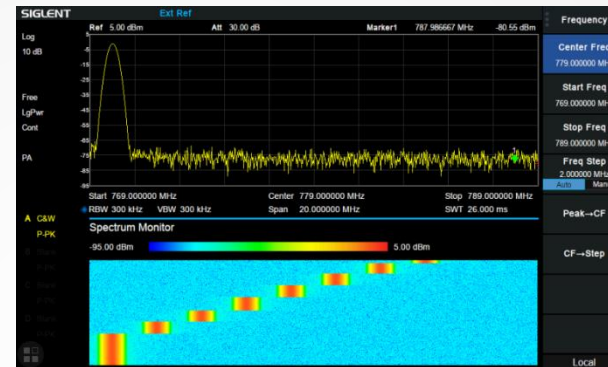


SVA1000X Series

What does the Spectrum & Network Analyzer Series deliver?

3.) Options:

- Advanced Measurements (AMK)
- Vector Signal Analysis (VSA)
- EMC-Pre-Compliance (EMC)
- Distance to Fault Measurement (DTF)



Specification at a Glance



VNA is Standard!

Always offer SVA1000X with Cal.Kit!

**We now have two kits:
F503ME (N-male connector) &
F603FE (SMA female connector)**

**Selling SVA1000X to a customer not
owning a Cal Kit, makes no sense!**

Model Spec.	SVA1015X	SVA1032X	SVA1075X
TG	Factory included at no charge (100 kHz -> BW)		
SA Bandwidth	9 kHz - 1.5 GHz	9 kHz - 3.2 GHz	9 kHz - 7.5 GHz
VNA Bandwidth	10 MHz - 1.5 GHz	100 kHz - 3.2 GHz	100 kHz - 7.5 GHz
VNA Calibration Kit	F503ME, F603FE		
DANL	-156 dBm/Hz	-161 dBm/Hz	-165 dBm/Hz
RBW	1 Hz - 1 MHz		1 Hz - 3 MHz
Phase Noise	< -98 dBc/Hz@1 GHz, 10 kHz offset		
Options	AMK/EMI/AMA/DMA/DTF		
Advanced Measurement Kit	CHP/ACPR/TOI/OBW/Monitor/Harmonic/CNR		
Analog Modulation Analysis	AM/FM		
Digital Modulation Analysis	ASK/FSK/PSK/QAM		
EMI	Filter BW: 200/9k /120k/1M		

SSA3075X Plus

Spectrum Analyzer



Technical Differences X vs. X plus

Model Spec.	SSA3000X Series		SSA3000X Plus Series		
	SSA3021X	SSA3032X	SSA3021X Plus	SSA3032X Plus	SSA3075X Plus
DANL	-151 dBm/Hz (equivalent)		-161 dBm/Hz		-165 dBm/Hz
Frequency Counter resolution	1 Hz		0.01 Hz		
TG Level	-20 dBm - 0 dBm		-20 dBm - 0 dBm		-40 dBm - 0 dBm
Sweep speed	-		3~100 times faster in different RBW		
VSWR	1 M up to BW of Bridge		100 kHz up to BW of bridge		
VSWR Measurement	Open Cal		Open+ Short Cal		
Trace Math	Log operation		Log and Power operation		
Modulation Analysis	-		AM/FM/ASK/FSK/PSK/QAM		
EMI filter	200 Hz, 9 kHz, 120 kHz		200 Hz, 9 kHz, 120 kHz, 1MHz		
Control	-		Touch Screen, Mouse & Keyboard, Webserver		
On Screen Keyboard	No		Support		
On Screen Annotation	No		Support		
FTP File Download	No		Support		
Power on Line	No		Support		

SSA3kX vs. SSA3kX plus vs. SVA1kX

Mode Spec.	SSA3000X Series		SSA3000X Plus Series			SVA1000X Series		
	SSA3021X	SSA3032X	SSA3021X Plus	SSA3032X Plus	SSA3075X Plus	SVA1015X	SVA1032X	SVA1075X
TG	Factory included at no charge		Factory included at no charge (100 kHz -> BW)			Factory included at no charge (100 kHz -> BW)		
SA Bandwidth	9 kHz - 2.1 GHz	9 kHz - 3.2 GHz	9 kHz - 2.1 GHz	9 kHz - 3.2 GHz	9 kHz - 7.5 GHz	9 kHz - 1.5 GHz	9 kHz - 3.2 GHz	9 kHz - 7.5 GHz
VNA Bandwidth	-		-			10MHz - 1.5 GHz	100 kHz - 3.2 GHz	100 kHz - 7.5 GHz
VNA Calibration Kit	-		-			F503ME, F603FE		
DANL	-151 dBm (RBW 10Hz) -161 dBm, Normalized to 1 Hz		-161 dBm/Hz		-165 dBm/Hz	-156 dBm/Hz	-161 dBm/Hz	-165 dBm/Hz
RBW	10 Hz - 1 MHz (1Hz setable)		1 Hz - 1 MHz		1Hz - 3 MHz	1 Hz - 1 MHz		1Hz - 3 MHz
Phase Noise	< -98 dBc/Hz@1 GHz, 10 kHz offset		< -98 dBc/Hz@1 GHz, 10 kHz offset			< -98 dBc/Hz@1 GHz, 10 kHz offset		
Options	AMK/EMI/Refl		AMK/EMI/AMA/DMA			AMK/EMI/AMA/DMA/DTF		
AMK	CHP/ACPR/TOI/OBW/Monitor		CHP/ACPR/TOI/OBW/Monitor/Harmonic/CNR			CHP/ACPR/TOI/OBW/Monitor/Harmonic/CNR		
AMA	-		AM/FM			AM/FM		
DMA	-		ASK/FSK/PSK/QAM			ASK/FSK/PSK/QAM		
EMI filter	200 Hz, 9 kHz, 120 kHz		200 Hz, 9 kHz, 120 kHz, 1MHz			200 Hz, 9 kHz, 120 kHz, 1MHz		
Touch Screen	-		Touch Screen, Mouse & Keyboard, Webserver			Touch Screen, Mouse & Keyboard, Webserver		

SVA1000X & SSA3000X Plus Series

What do these two Analyzer Series deliver?

Both Series utilize the same easy and intuitive User Interface

- **Touch Screen – Quick access to settings**
- **External Keyboard & Mouse – Computer-like usage**
- **Webserver – Easy Remote control**

SVA1000X & SSA3000X Plus come with a 10.1 inch touch screen.

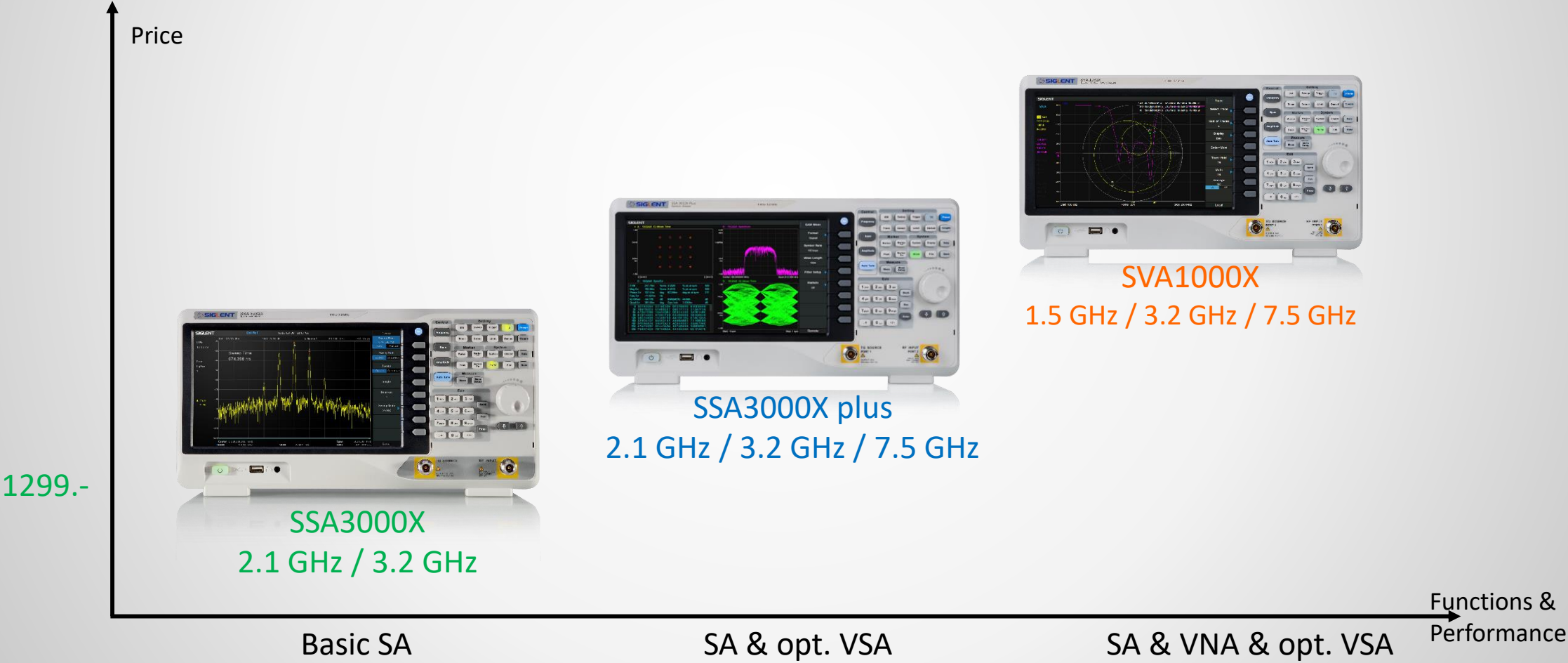
It supports on screen keyboard and enable to edit Labels.

Plus, external keyboard and mouse are also supported.

In addition to EasySpectrum, Telnet and Socket communication, SVA1000X & SSA3000X Plus support Webserver to control the unit remotely on PC or mobile.



Spectrum Analyzer Portfolio Positioning



Applications

SA	General purpose Spectrum Analysis AM/FM demodulation Interference and Surveillance
EMI	EMC Pre-compliance test (up to 6 GHz)
AMK	Analyze modulated signal Parameter (CP, OBW, CNR) Determine Signal Quality (ACPR, CNR, Harmonics, etc) Harmonics measurements Amplifier performance (TOI, etc.) Intermittent signals analysis (Monitor)
VNA	Impedance matching for RF-designs S11,S21 (reflection/transmission) measurement for RF-Components (filter, amplifier, cable, antenna) SWR measurement of antennas
DTF	Cable test / Defect localisation
VSA	Transmission Quality Analysis (for AM,FM, PSK, MSK, FSK, QAM modulation) Transmitter Qualification

Thank You

The Best Value in Electronic Test & Measurement

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