

SSA3000X Plus Spectrum Analyzer

DataSheet DS0703P_E02B



General Description

The SIGLENT SSA3000X Plus series spectrum analyzers are powerful and flexible tools for RF spectrum and signal analysis. With a frequency range to 7.5 GHz, the analyzer delivers reliable automatic measurements and multiple modes of operation: spectrum analyzer the base, optional functions include RF power measurement, vector signal modulation analysis, reflection measurement, and EMI test.

Applications include broadcast monitoring/evaluation, site surveying, S-parameter measurement, analog/digital modulation analysis, EMI pre-compliance test, research and development, education, production, and maintenance.

Features and Benefits

- ◆ Spectrum Analyzer Frequency Range from 9 kHz up to 2.1 GHz / 3.2 GHz / 7.5 GHz
- ◆ -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.)
- ◆ 1 Hz Minimum Resolution Bandwidth (RBW)
- ◆ Preamplifier Standard
- ◆ Tracking Generator
- ◆ Analog and Digital Signal Modulation Analysis Mode (Opt.)
- ◆ Reflection Measurement Kit (Opt.)
- ◆ EMI Measurement Mode (Opt.)
- ◆ Advanced Measurement Kit (Opt.)
- ◆ 10.1 inch Multi-Touch Screen, Mouse and Keyboard supported
- ◆ Web Browser Remote Control on PC and Mobile Terminals and File Operation

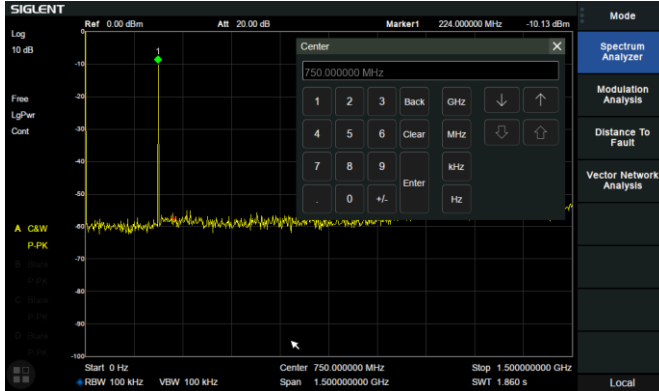
Models and Main index

| Model | SSA3021X Plus | SSA3032X Plus | SSA3075X Plus |
|-------------------------------|--|-----------------|-----------------|
| Frequency Range | 9 kHz ~ 2.1 GHz | 9 kHz~3.2 GHz | 9 kHz~7.5 GHz |
| Resolution Bandwidth | 1 Hz~1 MHz | 1 Hz~1 MHz | 1 Hz~3 MHz |
| Displayed Average Noise Level | -161 dBm/Hz | -161 dBm/Hz | -165 dBm/Hz |
| SSB Phase Noise | < -98 dBc/Hz | <-98 dBc/Hz | <-98 dBc/Hz |
| Third-order intercept (TOI) | +10 dBm | +10 dBm | +14 dBm |
| Total Amplitude Accuracy | < 0.7 dB | < 0.7 dB | < 0.7 dB |
| Tracking Generator | 100 kHz ~ 2.1 GHz | 100 kHz~3.2 GHz | 100 kHz~7.5 GHz |
| Touch Screen | Multi Touch, Mouse and Keyboard supported | | |
| Advanced Measurement | CHP, ACPR, OBW, CNR, Harmonic, TOI, Monitor | | |
| Reflection Measurement | VSWR measurement using Reflection Bridge | | |
| EMI Test | EMI Filter and Quasi-Peak Detector, Log Scale and Limit Line | | |
| Modulation Analysis | AM, FM; ASK, FSK, MSK, PSK, QAM | | |
| Communication Interface | LAN, USB Device, USB Host (USB-GPIB) | | |
| Remote Control Capability | SCPI/Labview/IVI based on USB-TMC/VXI-11/Socket/Telnet | | |
| Remote Controller | NI-MAX, Web Browser, Easy Spectrum software, File Explorer | | |

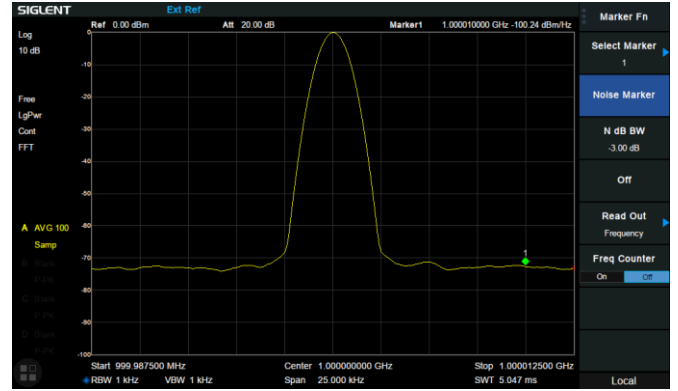
Design Features

Spectrum Analyzer Mode

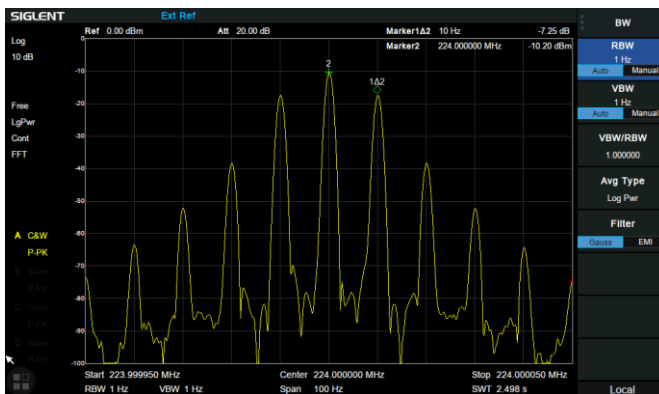
10.1 Inch Display with Multi-Touch Screen



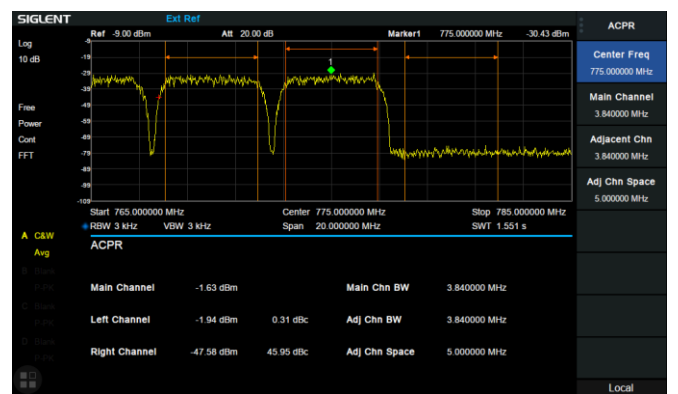
Phase noise <math>< -98 \text{ dBc/Hz}@1 \text{ GHz}</math>



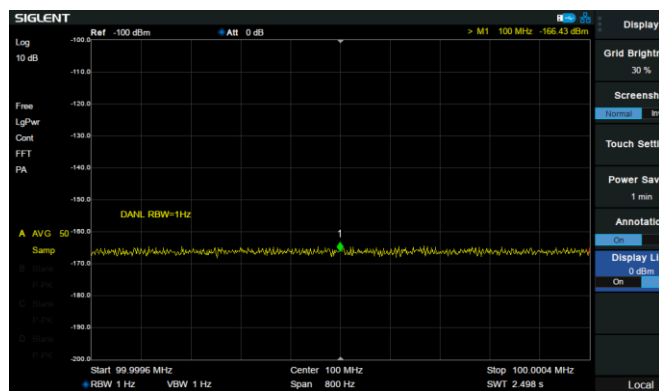
Minimum 1 Hz Resolution Bandwidth (RBW)



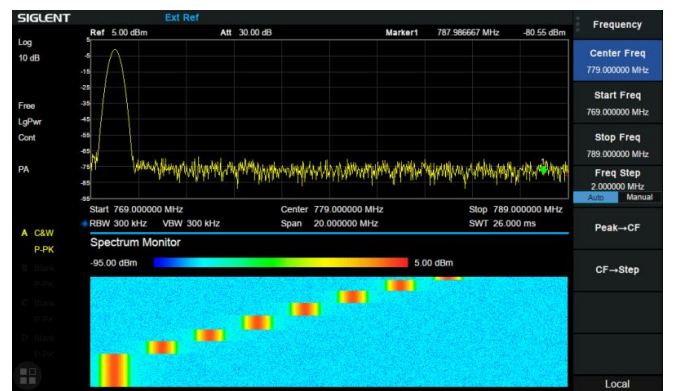
ACPR in Advanced Measurement Kit



-165 dBm/Hz Displayed Average Noise Level

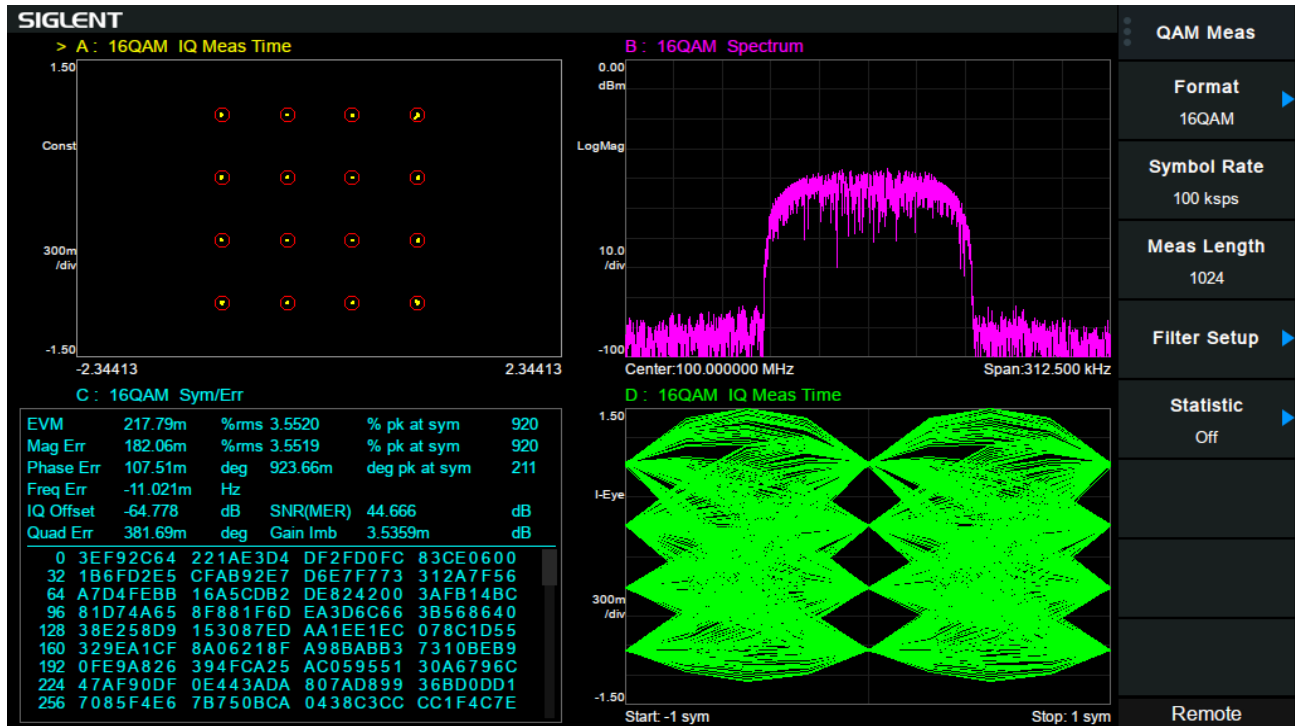


Monitor in Advanced Measurement Kit



Modulation Analysis Mode

AM/FM, ASK/FSK/PSK/MSK/QAM Vector Signal Modulation Analysis, EVM evaluation



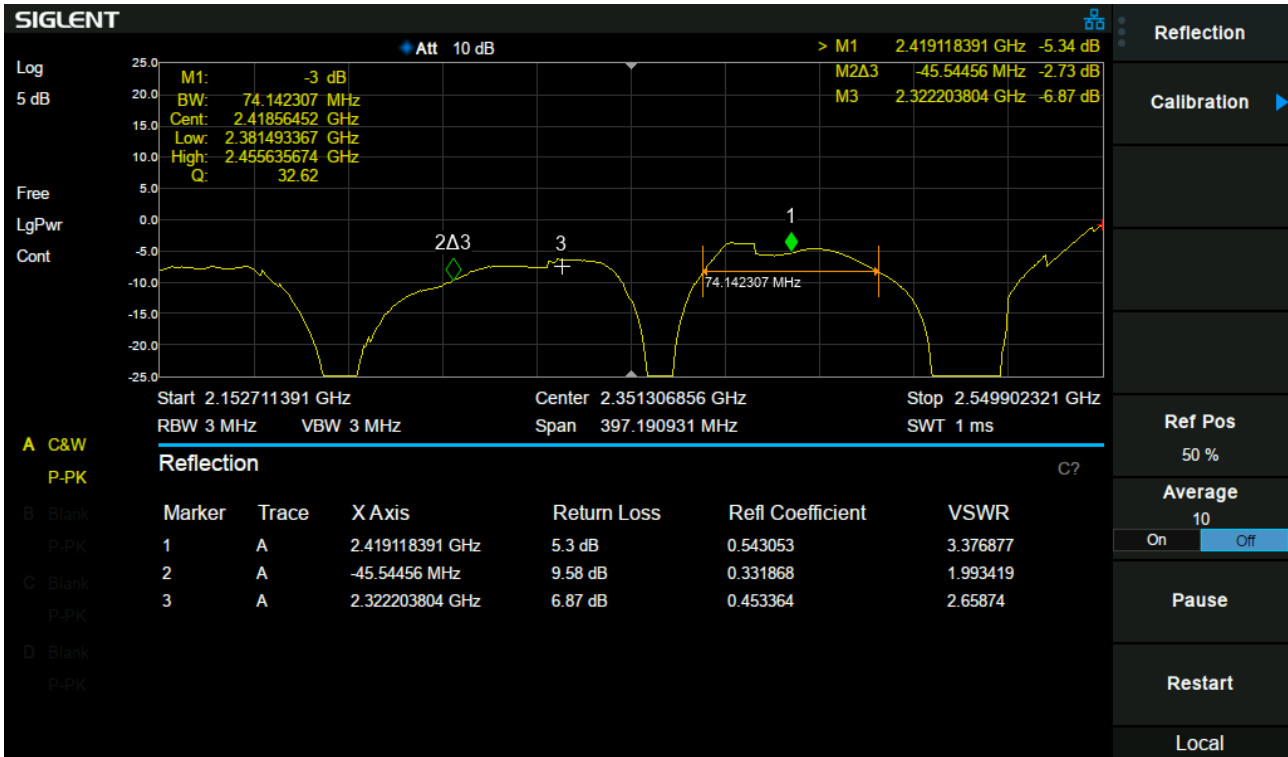
EMI Measurement Mode

EMI Measurement with CISPR 16-1-1 EMI filter, Quasi-peak Detector, and pre-stored standards.



Reflection Measurement

VSWR and Return Loss measurement with Q value calculation, using External Reflection Bridge or Directional Coupler



Accessories

Utility Kit



Near Field Probe Set



USB-GPIB Adaptor



6U Rack Mount



Soft Carrying Bag



Reflection Bridge



Calibration Kit



Specifications

Specifications are valid under the following conditions: The instrument is within the calibration period, has been stored between 0 and 50°C for at least 2 hours prior to use, and has been powered on and warmed up for at least 40 minutes. The specifications include the measurement uncertainty, unless otherwise noted.

Specifications: All products are guaranteed to meet published specifications when operating at room temperature (approximately 25°C), unless otherwise noted.

Typical: Performance deemed typical implies that 80 percent of the measurement results will meet the typical published performance with a 95th percentile confidence level at room temperature (approximately 25°C). Typical performance is not warranted and does not include measurement uncertainty.

Nominal: The expected performance or design attribute.

Spectrum Analyzer Mode

Frequency and Time Characteristic

| Frequency | | | |
|--|--|-----------------|-----------------|
| | SSA3021X Plus | SSA3032X Plus | SSA3075X Plus |
| Frequency range | 9 kHz ~ 2.1 GHz | 9 kHz ~ 3.2 GHz | 9 kHz ~ 7.5 GHz |
| Frequency resolution | 1 Hz | | |
| Frequency Span | | | |
| Range | 0 Hz, 100 Hz to Max Frequency | | |
| Accuracy | \pm Span / (number of display points - 1) | | |
| Internal Reference Source | | | |
| Reference frequency | 10.000000 MHz | | |
| Reference frequency accuracy / uncertainty | \pm [(time since last adjustment \times frequency aging rate) + temperature stability + initial calibration accuracy] | | |
| Initial calibration accuracy | <1 ppm | | |
| Temperature stability | <1 ppm/year, 0 °C ~50 °C | | |
| Frequency aging rate | <0.5 ppm/first year, 3.0 ppm/20 years | | |
| Marker | | | |
| Marker resolution | Span / (number of display points - 1) | | |
| Marker uncertainty | \pm [frequency indication \times reference frequency uncertainty + 1% \times span + 10% \times resolution bandwidth + marker resolution] | | |
| Frequency Counter resolution | 0.01 Hz | | 0.1 Hz |
| Bandwidths | | | |
| Resolution bandwidth (-3dB) | 1 Hz ~ 1 MHz, in 1-3-10 sequence | | 1 Hz~3 MHz |
| Resolution filter shape factor | < 4.8 : 1 (60 dB:3 dB), Gaussian-like | | |
| RBW uncertainty | <5% | | |
| Video bandwidth (-3dB) | 1 Hz ~ 3 MHz, in 1-3-10 sequence | | 1 Hz~10 MHz |
| VBW uncertainty | <5% | | |
| Sweep and Trigger | | | |
| Sweep time | 1 ms to 1500 s | 1 ms to 3200 s | 1 ms to 7500 s |
| RBW | Sweep | 30 Hz ~ 1 MHz | 30 Hz ~ 1 MHz |
| | FFT | 1 Hz ~ 10 kHz | 1 Hz ~ 10 kHz |
| Sweep rule | Single, Continuous | | |
| Trigger source | Free, Video, External | | |
| External trigger | 5V TTL level, Rising edge/Falling edge | | |

Amplitude Accuracy and Range Specifications

| Amplitude and Level | | | |
|--------------------------|--|---------------|---------------|
| | SSA3021X Plus | SSA3032X Plus | SSA3075X Plus |
| Measurement range | DANL to +10 dBm, 100 kHz ~ 1 MHz, Preamp off DANL to +20 dBm, 1 MHz ~ 7.5 GHz, Preamp off | | |
| Reference level | -200 dBm to +30 dBm, 1 dB steps | | |
| Pre-Amplifier | 20 dB (nom.) | | |
| Input attenuation | 0 ~ 50 dB, 1 dB steps | | |
| Maximum input DC voltage | +/- 50 V _{DC} | | |
| Maximum average power | 30 dBm, 3 minutes, $f_c \geq 10$ MHz, att > 20 dBm, preamp off | | |
| Maximum damage level | 33 dBm, $f_c \geq 10$ MHz, att > 20 dBm, preamp off | | |
| Level Display | | | |
| Logarithmic level axis | 1 dB to 200 dB | | |
| Linear level axis | 0 to reference level | | |
| Units of level axis | dBm, dBmV, dB μ V, dB μ A, Volt, Watt | | |
| Number of display points | 751 | | |
| Number of traces | 4 | | |
| Trace detectors | Positive-peak, Negative-peak, Sample, Normal, Average(Voltage/RMS/Video), Quasi-peak | | |
| Trace functions | Clear write, Max Hold, Min Hold, View, Blank, Average, Math | | |

| SSB Phase Noise | | | |
|-----------------|---|------------------------------------|------------------------------------|
| | SSA3021X Plus | SSA3032X Plus | SSA3075X Plus |
| Offset | 20 °C to 30 °C, $f_c = 1$ GHz, Normalized to 1 Hz | | |
| 10 kHz | -95 dBc/Hz, -99 dBc/Hz (typ.) | -95 dBc/Hz, -98 dBc/Hz (typ.) | -96 dBc/Hz, -98 dBc/Hz (typ.) |
| 100 kHz | -96 dBc/Hz, -98 dBc/Hz (typ.) | -96 dBc/Hz, -97 dBc/Hz (typ.) | -95 dBc/Hz, -97 dBc/Hz (typ.) |
| 1 MHz | -115 dBc/Hz, -120 dBc/Hz (typ.) | -115 dBc/Hz, -117 dBc/Hz (typ.) | -112 dBc/Hz, -114 dBc/Hz (typ.) |

Displayed Average Noise Level (DANL)

| | SSA3021X Plus | SSA3032X Plus | SSA3075X Plus | |
|---|-----------------|------------------------------|------------------------------|------------------------------|
| 20 °C to 30 °C, att = 0 dB, RBW = 1 Hz, sample detector, trace average > 50, TG off | | | | |
| Preamp off | 100 kHz ~1 MHz | -107 dBm, -111 dBm (typ.) | -107 dBm, -111 dBm (typ.) | -105 dBm, -109 dBm (typ.) |
| | 1 MHz~10 MHz | -132 dBm, -136 dBm (typ.) | -132 dBm, -136 dBm (typ.) | -122 dBm, -126 dBm (typ.) |
| | 10 MHz~200 MHz | -137 dBm, -141 dBm (typ.) | -137 dBm, -141 dBm (typ.) | -142 dBm, -146 dBm (typ.) |
| | 200 MHz~1.5 GHz | -135 dBm, -139 dBm (typ.) | -135 dBm, -139 dBm (typ.) | -142 dBm, -147 dBm (typ.) |
| | 1.5 GHz~3.2 GHz | | -126 dBm, -132 dBm (typ.) | -140 dBm, -145 dBm (typ.) |
| | 3.2 GHz~5.0 GHz | | | -137 dBm, -143 dBm (typ.) |
| | 5.0 GHz~6.5 GHz | | | -136 dBm, -141 dBm (typ.) |
| | 6.5 GHz~7.5 GHz | | | -134 dBm, -139 dBm (typ.) |
| Preamp on | 100 kHz ~1 MHz | -132 dBm, -137 dBm (typ.) | -132 dBm, -137 dBm (typ.) | -133 dBm, -136 dBm (typ.) |
| | 1 MHz~10 MHz | -148 dBm, -154 dBm (typ.) | -148 dBm, -154 dBm (typ.) | -151 dBm, -154 dBm (typ.) |
| | 10 MHz~200 MHz | -156 dBm, -161 dBm (typ.) | -156 dBm, -161 dBm (typ.) | -161 dBm, -165 dBm (typ.) |
| | 200 MHz~1.5 GHz | -155 dBm, -158 dBm (typ.) | -155 dBm, -158 dBm (typ.) | -159 dBm, -163 dBm (typ.) |
| | 1.5 GHz~3.2 GHz | | -145 dBm, -149 dBm (typ.) | -159 dBm, -162 dBm (typ.) |
| | 3.2 GHz~5.0 GHz | | | -157 dBm, -161 dBm (typ.) |
| | 5.0 GHz~6.5 GHz | | | -157 dBm, -160 dBm (typ.) |
| | 6.5 GHz~7.5 GHz | | | -155 dBm, -159 dBm (typ.) |

| Frequency Response | | | |
|--|--|---------------|--|
| | SSA3021X Plus | SSA3032X Plus | SSA3075X Plus |
| | 20 °C to 30 °C, 30% to 70% relative humidity, att = 20 dB, relative to fc = 50 MHz | | |
| Preamp off | ±0.8 dB, ±0.4 dB (typ.) | | |
| Preamp on | ±1.2 dB, ±0.6 dB (typ.) | | |
| Error and Accuracy | | | |
| Resolution bandwidth switching uncertainty | Logarithmic resolution, relative to RBW = 10 kHz ± 0.2 dB (nom.) | | |
| Input attenuation switching uncertainty | 20 °C to 30 °C, fc = 50 MHz, preamp off, relative to att = 20 dB ± 0.5 dB | | |
| Absolute amplitude accuracy | 20 °C to 30 °C, fc = 50 MHz, RBW = VBW = 1 kHz, att = 20 dB, peak detector, 95% reliability ±0.4 dB, input signal -20 dBm, Preamp off ±0.6 dB, input signal -40 dBm, Preamp on | | |
| Total amplitude accuracy | 20 °C to 30 °C, fc > 100 kHz, input signal -50 dBm ~ 0 dBm, att = 20 dB, RBW=VBW=1 kHz, peak detector, preamp off, 95% reliability ±0.7 dB | | |
| RF input VSWR | Att = 10 dB, fc ≥ 1 MHz <1.5 (nom.) | | Att = 20 dB, fc ≥ 1 MHz <1.5 (nom.) |
| Distortion and Spurious Responses | | | |
| Second harmonic distortion (SHI) | 20 °C to 30 °C, fc ≥ 50 MHz, mixer level -20 dBm, att = 0 dB, preamp off -65 dBc / +45 dBm (nom.) | | |
| Third-order intercept (TOI) | 20 °C to 30 °C, fc ≥ 50 MHz, two -20 dBm tones spaced by 100 kHz, att = 0 dB, preamp off +10 dBm (typ.) | | +14 dBm (typ.) |
| 1dB gain compression | 20 °C to 30 °C, fc ≥ 50 MHz, att = 0 dB, preamp off > -5 dBm (nom.) | | > 0 dBm (nom.) |
| Residual response | 20 °C to 30 °C, input terminated = 50 Ω, att = 0 dB < -90 dBm | | |
| Input related spurious | 20 °C to 30 °C, mixer level = -30 dBm <-65 dBc | | |

Tracking Generator (Option SSA3000XP-TG)

Frequency Parameter

| | SSA3021X Plus | SSA3032X Plus | SSA3075X Plus |
|----------------------|-------------------|---------------|-------------------|
| Frequency Range | 100 kHz ~ 2.1 GHz | | 100 kHz ~ 7.5 GHz |
| Frequency Resolution | 1 Hz, Zero Span | | |
| RBW, sweep mode | 100 Hz ~ 1 MHz | | 3k Hz ~ 3 MHz |

Power Parameter

| | | | |
|----------------------------|------------------------------|--|-----------------|
| Output level | -20 dBm ~ 0 dBm | | -40 dBm ~ 0 dBm |
| Output level resolution | 1 dB | | |
| Output flatness | +/-3 dB (nom.) | | |
| Normalization Trace | Ref A/B/C/D-> Ref trace | | |
| VSWR | < 2 (nom.) | | |
| Connector and Impedence | N-type female, 50 Ω | | |
| Average safe reverse power | Total: 30 dBm (1 W) | | |
| Maximum safe reverse level | Voltage: ±50 V _{DC} | | |

Advanced Measurement Kit (Option SSA3000XP-AMK)

Power Measurement

| | |
|------------------------------------|--|
| CHP, Channel Power | Channel Power, Power Spectral Density |
| ACPR, Adjacent Channel Power Ratio | Main CH Power, Left channel power, Right channel power |
| OBW, Occupied Bandwidth | Occupied Bandwidth, Transmit Frequency Error |
| T-Power, Time Domain Power | Zero Span Integrated Power |
| CNR, Carrier Noise Ratio | C/N, Noise Power |

Non-Linear Measurement

| | |
|----------------------------|---|
| Harmonic measurement | Max Harmonic number 10 |
| TOI, Third-Order Intercept | Measure the third-order products from two tones |

Spectrum Monitor Measurement

Spectrogram

Reflection Measurement Kit (Option SSA3000XP-Refl)

Stimulus and Measurement

| | SSA3021X Plus | SSA3032X Plus | SSA3075X Plus |
|-----------------|---|-------------------|-------------------|
| Frequency Range | 100 kHz ~ 2.1 GHz | 100 kHz ~ 3.2 GHz | 100 kHz ~ 7.5 GHz |
| RBW | 100 Hz ~ 1 MHz | | 3k Hz ~ 3 MHz |
| Stimulus Power | -20 ~ 0 dBm | | |
| Format | VSWR, Return Loss, Reflection Coefficient | | |
| Calibration | Open Cal, Open + Short, Open + Load | | |
| Marker Function | N dB BW, Q measurement | | |

Modulation Analyzer Mode

| Common Parameter | | | |
|------------------------|---------------------------|-----------------|-----------------|
| | SSA3021X Plus | SSA3032X Plus | SSA3075X Plus |
| Frequency Range | 2 MHz ~ 2.1 GHz | 2 MHz ~ 3.2 GHz | 2 MHz ~ 7.5 GHz |
| Carrier Power Accuracy | ±2 dB (nom.) | | |
| Carrier Power Range | -30 dBm to +20 dBm (nom.) | | |

| Recording | |
|---------------------|--|
| Data Packing | I = Q = 4 Byte |
| Memory | 60 MByte |
| Length (IQ pairs) | 7.5 MSample (60MB/8B) |
| Length (Time units) | Samples / (Span x 1.25) |
| PC Software | Analysis and Playback in Easy VSA Software |
| Playback | Easy VSA, Easy IQ or SSG5000X signal generator |

Analog Modulation Analysis (Option SSA3000XP-AMA)

| AM | | |
|------------------------|-------------------------------|-------------------------|
| Modulation rate range | 20 Hz to 100 kHz | |
| Accuracy | 1 Hz (nom.) | Modulation rate < 1 kHz |
| | < 0.1% modulation rate (nom.) | Modulation rate ≥ 1 kHz |
| Modulation depth range | 5% to 95% | |
| Accuracy | ±4% (nom.) | |
| FM | | |
| Modulation rate range | 20 Hz to 200 kHz | |
| Accuracy | 1 Hz (nom.) | Modulation rate < 1 kHz |
| | < 0.1% modulation rate (nom.) | Modulation rate ≥ 1 kHz |
| Frequency deviation | 1 kHz to 400 kHz | |
| Accuracy | ±4% (nom.) | |

Digital Modulation Analysis (Option SSA3000XP-DMA)

| Measurement | |
|--------------------|---|
| Modulation Type | ASK: 2ASK; FSK: 2,4,8,16 level; MSK: GMSK; PSK: BPSK,QPSK,OQPSK,8PSK; DPSK: DBPSK, DQPSK, D8PSK, $\pi/4$ -DQPSK, $\pi/8$ -D8PSK; QAM: 16,32,64,128,256 |
| Meas Length | 16 to 4096 |
| Points/Symbol | 4,6,8,10,12,14,16 |
| Symbol Rate | 1 ksps to 2.5 Msps, Symbol Rate* Points/Symbol \leq 10 Msps |
| Filter | |
| Meas/Ref Filter | Nyquist, Sqrt Nyquist, Gauss, Half Sine, Rectangular |
| Length | 2 to 128 |
| Alpha/BT | Alpha 0.01 ~ 1, BT 0.01 ~ 10 |
| Trace | |
| Trace Data | IQ Meas Time, IQ Meas Spectrum, IQ Ref Time, IQ Ref Spectrum, Time, Spectrum, Symbol Error Chart, Err Vector Time, Err Vector Spectrum, IQ Mag Err, IQ Phase Err, |
| Layout | Single, Stacked 2, Grid 1 2, Grid 2*2 |
| Trace Formats | Log mag, Lin mag, Real, Imag, I-Q, Constellation, I-eye, Q-eye, Wrap Phase, Unwrap Phase, Trellis eye |
| Symbol Error Chart | |
| PSK/DPSK/MSK/QAM | EVM (rms EVM, peak EVM), Magnitude error, Phase error, IQ offset, Carrier offset, SNR Quadrature error, Gain imbalance(not support for MSK), |
| ASK | ASK Error, ASK depth, carrier offset |
| FSK | FSK Error, Magnitude error, FSK deviation, carrier offset |

Inputs and Outputs

| Front Panel | |
|---------------------------|--|
| RF input, Port 2 | N-type female, 50 Ω (nom.) |
| TG Source, Port 1 | N-type female, 50 Ω (nom.) |
| USB host | USB-A plug, version 2.0 |
| Ear Phone Jack | 3.5 mm |
| Rear Panel | |
| USB device | USB-B plug, version 2.0 |
| LAN | 10/100 Base, RJ-45 |
| 10 MHz reference output | 10 MHz, >0 dBm, BNC-type female, 50 Ω (nom.) |
| 10 MHz reference input | 10 MHz, -5 to +10 dBm, BNC-type female, 50 Ω (nom.) |
| External trigger input | 5V TTL level, BNC-type female, 10 k Ω |
| Remote Control | |
| Communication Interface | LAN, USB Device, USB Host (USB-GPIB adaptor) SCPI / Labview / IVI based on USB-TMC / VXI-11 / Socket / Telnet; NI-MAX; |
| Remote Control Capability | Web Browser (HTML 5 Supported); Easy Spectrum software; File Explorer (FTP) |

General Specification

| Structure | | | |
|---|--|---|--|
| | SSA3021X Plus | SSA3032X Plus | SSA3075X Plus |
| Weight | Net: 4.40 kg (9.7 lb); Shipping: 5.20 kg | Net: 4.40 kg (9.7 lb); Shipping: 5.20 kg | Net: 4.70 kg (10.0 lb); Shipping: 5.50 kg |
| Dimensions | 393 mm × 207 mm × 116.5 mm (W×H×D) | | |
| Display | TFT LCD, 1024 × 600, 10.1 inch multi-touch screen | | |
| Storage | Internal (Flash) 256 MB, external (USB storage device) 32 GByte | | |
| Working Environment | | | |
| Source | AC voltage range: 100-240 V, 50/60 Hz or 100-120 V 400 Hz; | | |
| Power consumption | 35 W | | 70 W |
| Temperature | Working temperature: 0 °C to 40 °C, Storage temperature: -20 °C to 70 °C | | |
| Humidity | 0 °C to 30 °C, ≤ 95% Relative humidity 30 °C to 50 °C, ≤ 75% Relative humidity | | |
| Altitude | Operating: less than 3 km | | |
| Electromagnetic Compatibility | | | |
| EN 61326-1: 2013 / EN 61000-3-2: 2014 | Class A (The active input power of the EUT is less than 75 W. According to EN 61000-3-2, no limits are necessary.) | | |
| EN 61000-3-3: 2013 | Plt: 0.65 Pst: 1.00, dmax: 4.00 % dc: 3.00 % dt Lim: 3.30 % dt>Lim: 500ms | | |
| IEC 61000-4-2: 2008 | AD ±8.0 kV, CD ±4.0 kV | | |
| IEC 61000-4-3: 2006 + A1: 2007 + A2: 2010 | 80 MHz to 1000 MHz: 10V/m, 1.4 GHz to 2.0 GHz:3 V/m, 2.0 GHz to 2.7 GHz:1V/m | | |
| IEC 61000-4-4: 2004 + A1: 2010 | AC Line: ±2.00 kV | | |
| IEC 61000-4-5: 2005 | Line to Line: 1.0 kV, Line to Earth: 2.0 kV | | |
| IEC 61000-4-6: 2008 | 0.15-80 MHz:3 V 1 KHz 80% AM | | |
| IEC 61000-4-8: 2009 | 30 A/m, 50/60 Hz | | |
| IEC 61000-4-11: 2004 | Voltage Dips:0%/0.5P; 40%/10P; 70%/25P; Short Interruptions Test Level % UT: 0%/250P | | |
| Safety | | | |
| IEC 61010-1:2010/EN 61010-1:2010 | | | |
| CAN/CSA-C22.2 No.61010-1:2012, CAN/CSA-C22.2 No.61010-2-30:2012, UL 61010-1:2012, UL 61010-2-30:2012 | | | |
| RoHS | | | |
| 2011/65/EU | | | |

Ordering Information

| Product | Description | Order Number |
|--------------------------------|---|---------------|
| Product Code | Spectrum Analyzer, 9 kHz ~ 2.1 GHz | SSA3021X Plus |
| | Spectrum Analyzer, 9 kHz ~ 3.2 GHz | SSA3032X Plus |
| | Spectrum Analyzer, 9 kHz ~ 7.5 GHz | SSA3075X Plus |
| Standard Accessories | Quick Start, USB Cable, Power Cord | |
| Common Options and Accessories | Tracking Generator | SSA3000XP-TG |
| | Advanced Measurement Kit | SSA3000XP-AMK |
| | Utility Kit: N(M)-SMA(M) cable(6 GHz), N(M)-N(M) cable(6 GHz), N(M)-BNC(F) adaptor x2, N(M)-SMA(F) adaptor x2, 10 dB 1W attenuator | UKitSSA3X |
| | N(M)-SMA(M) cable, 70cm, 6 GHz | N-SMA-6L |
| | N(M)-N(M) cable, 70cm, 6 GHz | N-N-6L |
| | N(M)-BNC(M) cable, 70cm, 2 GHz | N-BNC-2L |
| | N(M)-SMA(M) cable, 100cm, 18 GHz | N-SMA-18L |
| | N(M)-N(M) cable, 100cm, 18 GHz | N-N-18L |
| | USB-GPIB Adaptor | USB-GPIB |
| | Soft carrying bag | BAG-S2 |
| Reflection Measurement Options | 6U Rack Mount Kit | SSA-RMK |
| | Tracking Generator | SSA3000XP-TG |
| | Reflection Measurement | SSA3000-RefI |
| | Reflection Bridge Kit: Reflection Bridge (1 MHz ~ 2.5 GHz), N(M)-N(M) adaptors x2 | RB3X25 |
| | 50 Ω, N type Male, 4.5 GHz Economic Calibration Kit: Open(M), Short(M), Match(M), Through Adapter(F-F) | F503ME |
| | EMI Measurement Mode | SSA3000XP-EMI |
| | 300 kHz~3 GHz Near Field Probe Kit: 3 H-probes (20/10/5 mm), 1 E-probe (5 mm) | SRF5030T |
| Modulation Analysis Options | Digital Modulation: ASK, FSK, MSK, PSK, QAM | SSA3000XP-DMA |
| | Analog Modulation: AM, FM | SSA3000XP-AMA |
| | Easy VSA Software | EasyVSA |

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, function/arbitrary waveform generators, RF generators, digital multimeters, DC power supplies, spectrum analyzers, vector network analyzers, isolated handheld oscilloscopes, electronic load and other general purpose test instrumentation. Since its first oscilloscope, the ADS7000 series, 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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