



SASI 240

DUAL-CHANNEL VIRTUAL INSTRUMENT

FULLY SYNTHETIC, 2-CHANNEL MULTI-PURPOSE MEASUREMENT DEVICE

Textron Systems' SASI 240 is a Signal Analysis Synthetic Instrument that combines the capabilities of three distinct measurement systems into a single device. The dual-channel architecture enables two independent RF measurements to be run simultaneously. Whether used as a benchtop device or an integrated ATE RF sub-system, SASI's simple and intuitive graphic user interface ensures easy, out-of-the box functionality. SASI hardware is built around a modular, scalable architecture and is paired with long-term product support. This truly is automation made easy.

- Dual Channel Measurements
- 2 DC-coupled inputs with a frequency range of DC to 20 MHz
- 2 AC-coupled inputs with a frequency range of 10 MHz to 40 GHz
- Built-in Spectrum Analyzer, VNA and O-Scope
- Scalable modular architecture
- Remote Operation via IEEE 488.2 (SCPI)



TEXTRON Systems

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SASI 240

SASI 240 SPECIFICATIONS

Textron Systems' SASI 240 is the ideal RF measurement instrument for ATE or lab applications. SASI offers dual-channel measurements with industry leading accuracy and measurement time at an affordable price, in a compact 3U, 19" rack-mounted footprint.

FEATURES AND SPECIFICATIONS

A detailed specification is available on request

FREQUENCY MEASUREMENT PERFORMANCE

- Modulation Measurement:
 - Peak deviation 500 KHz - 400 MHz $\pm 20\%$ at 6 dBc
 - Modulation rate 100 Hz to 10 MHz (@ 8 Hz resolution bandwidth)
- DC Coupled Range: 0.0 - 20 MHz, CW & Pulsed
- AC Coupled Range: 0.01 - 40.0 GHz, CW & Pulsed
- Resolution Bandwidth Range: 1 Hz - 10 MHz
- Frequency Accuracy:
 - $\pm 2 \times 10^{-7} \times$ measured frequency (derived from master clock jitter)
- Pulse Width: 40 nS to CW
- Duty Cycle: 0.1 to 99.9%, CW
- Spurious Response: Proprietary spurious rejection processing eliminates all spurs to the noise floor.
- Typical Input VSWR: $\leq 2:1$ (referenced to 50 Ω) for all frequencies ≤ 18 GHz when input attenuator is ≥ 10 dB
- Channel-to-Channel Isolation: ≥ 60 dB

POWER PERFORMANCE CHARACTERISTICS

- Power range:
 - +18.5 to -100 dBm over 3 MHz to 20 GHz
 - +5 to -100 dBm over 20 to 40 GHz
- Power resolution: 0.02dB
- Power sweep range: 40 dB max (+10 to -30 dBm)
- Trigger Capability:
 - 2 TTL Trigger Inputs 50 Ω impedance BNC connector
 - 8-Channel MLVDS Wire Interface Trigger Bus conforms to TIA/EIA-899 Molex 83614-9016 Connector
 - Provisions for two programmable internal trigger sources

IF OUTPUTS

- Frequency Range: 321.4 MHz (60 MHz Bandwidth) with input freq. > 100 MHz
- Output Power: -5 dBm (nominal) with ≥ -40 dBm input
 - Max output +15 dBm in 50 Ω load

PHYSICAL CHARACTERISTICS

- Height: 3U (5")
- Width: Standard 19" rack-mount configuration
- Depth: 25"
- Weight: 37.5 pounds
- Prime Power: 100-240 VAC 50/60 Hz
- Power Draw:
 - 132W @ idle
 - 170W (max) during simultaneous 2-channel measurements

VIDEO OUTPUT

- Pulse Rise Time: 20 ns (10% to 90%)
- Pulse Fall Time: 40 ns (90% to 10%)
- Settling Time: 40 ns

INPUT/OUTPUT CONNECTORS

- 2, USB 3.0 Ports
- Ethernet I/O
- HDMI Port for direct video output
- 2.92 mm jack RF input connector:
 - 10 MHz to 40 GHz
- SMA jack reference input connector:
 - DC to 20 MHz
- BNC jack reference input connector:
 - 10 MHz reference input signal

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