SASI 240 DUAL-CHANNEL VIRTUAL INSTRUMENT

FULLY SYNTHETIC, 2-CHANNEL MULTI-PURPOSE MEASUREMENT DEVICE

SASI combines the capabilities of six measurement systems into one device. Our dual-channel architecture enables multiple simultaneous RF measurements. 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.

TextronSystems.com
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KEY FEATURES & BENEFITS
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.

- 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)

SPECIFICATIONS

FREQUENCY MEASUREMENT PERFORMANCE
- Resolution Bandwidth Range: 1 Hz - 10 MHz
- Frequency Accuracy:
  - \( \pm 2 \times 10^{-7} x \) measured frequency (derived from master clock jitter)
- Pulse Width: 40 nS to CW
- Duty Cycle: 0.1 to 99.9%, CW
- Typical Input VSWR: \( \leq 2:1 \) (referenced to 50Ω) for all frequencies 0 to 40 GHz when input attenuator is \( \geq 10\)dB
- Channel-to-Channel Isolation: \( \geq 60 \) dB
- Typical DANL

POWER PERFORMANCE CHARACTERISTICS
- Power range:
  - +6 dBm 0 to 20 MHz (DC coupled)
  - +28 dBm 10 MHz to 40 GHz (AC coupled)
- Power resolution: 0.02dB
- Power sweep range: 40 dB max (+10 to -30 dBm)
- Trigger Capability:
  - 2 TTL Trigger Inputs 50Ω 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
- 3 dB instantaneous bandwidth: 60 MHz

VIDEO OUTPUT
- Pulse Rise Time: 60 ns (10% to 90%)
- Pulse Fall Time: 100 ns (90% to 10%)
- Settling Time: 100 ns

IF OUTPUTS
- Frequency Range: 321.4 MHz (60 MHz Bandwidth) with input frequency > 100 MHz
- Output Power: -5 dBm (nominal) with -40 dBm input
  - Max output +15 dBm in 50Ω 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

INPUT/OUTPUT CONNECTORS
- 2, USB 3.0 Ports
- Ethernet I/O
- HDMI Port for direct video output
- 2.92 mm jack RF input connector: input
  - 10 MHz to 40 GHz
- SMA jack reference input connector: input
  - DC to 20 MHz
- BNC jack reference input connector:
  - 10 MHz reference input signal
  - 10 MHz reference output signal
  - 170W (max) during simultaneous 2-channel measurements

SECURITY
- IA scanned and patched
- Diskless option

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