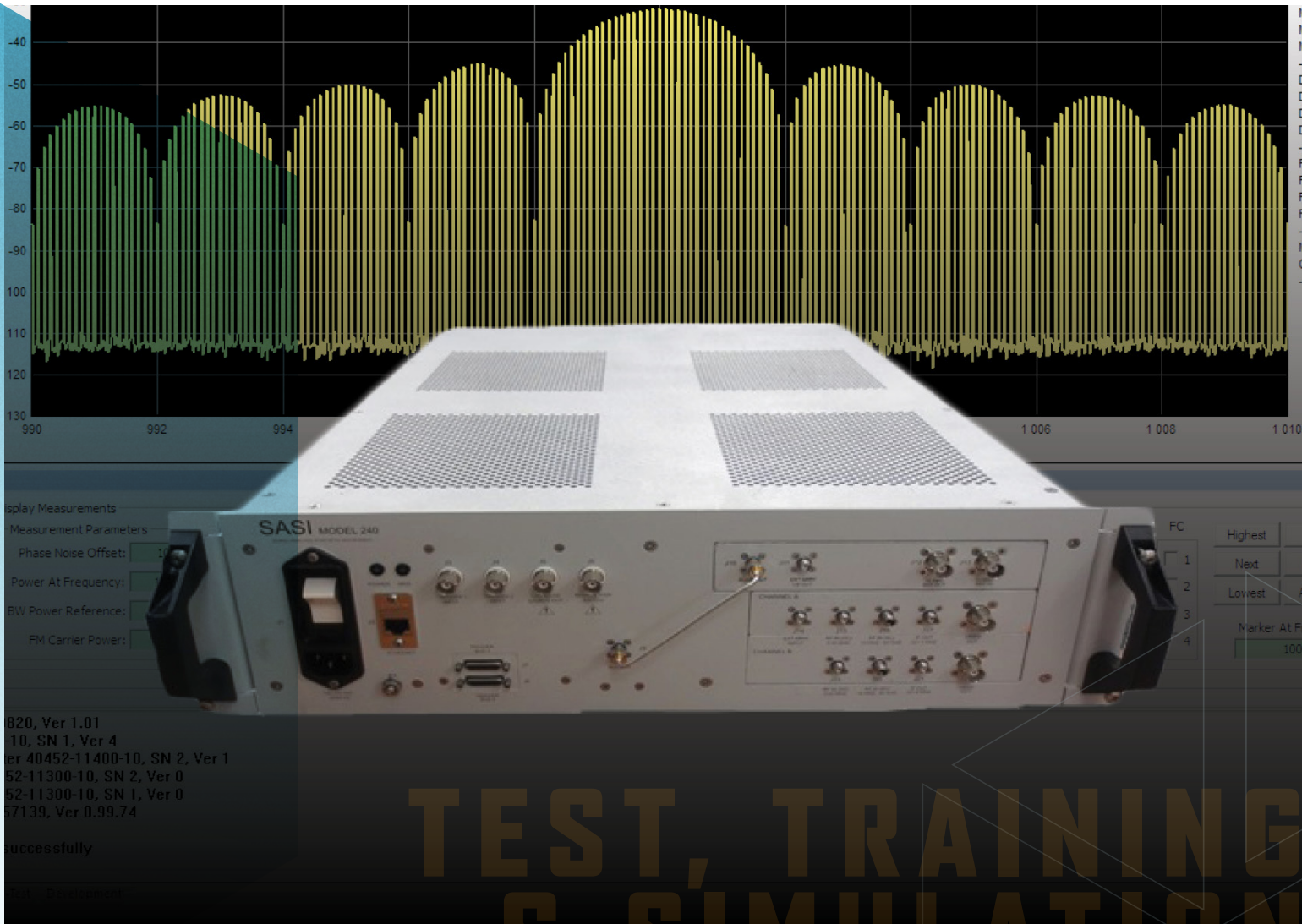


SASI 240

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.

TextronSystems.com



TEXTRON Systems

► PUSHING PAST POSSIBLE

SASI 240 DUAL-CHANNEL VIRTUAL INSTRUMENT

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 50 Ω) for all frequencies 0 to 40 GHz when input attenuator is ≥ 10 dB
- > Channel-to-Channel Isolation: ≥ 60 dB
- > Typical DANL

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 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

SECURITY

- > IA scanned and patched
- > Diskless option

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 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
- > 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

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