LEE RE

It's New / Fast / Compact / Cost Effective

ELITE RF Introduces the S-SERIES a Fully Integrated RF Test System

It's a 4.4 GHz Spectrum Analyzer
It's a 4.4 GHz RF Tracking Generator
It's a 13.6 GHz Dual Signal Generator
It's a 4.2 GHz Dual RF Power Amplifier
It's a 200 MHz 4 Channel Scope
It's a 8 GHz RF Power Meter



Features:

7" inch display RF power relay Remote control HDMI output RF power attenuator Internet access LAN USB 2.0 ports Wireless keyboard/mouse



ELITE RF

RF Pallets RF Modules RF Amplifiers RF Lab Amps RF Systems Test Equipment Custom Products

2 Year Warranty



S – Series (X –Standard / O- Optional)		Model	Model
Description		SA441	SPA441
Spectrum Analyzer	10 HZ - 4.4 GHz	X	X
Dual Signal Generator	54 MHZ - 13.6 GHz	X	X
Four Channel Scope	4 CH - 200 MHz	X	X
Tracking Generator	10 HZ - 4.4 GHz	0	X
RF Power Meter - CW/Pulse	1 MHz - 8 GHz		X
Power Amplifier - 1	5 Watts / 500 - 4200 MHz		X
Power Amplifier - 2	20 Watts / 20 - 1000 MHz		0
RF Relay - SPDT	35 Watts / DC - 18 GHz		X
RF Attenuator	10 Watts / DC - 18 GHz		Х

Other Models

12.4 GHz system Model SA1241 Model SPA1241

Custom Models available upon request.

Independent control of each RF/system allows for maximum test flexibility

The S - Series multi-purpose RF test system can be used in many applications such as R&D lab, ATE factory testing, EMC testing, field testing, and general purpose RF design. The S - Series is a flexible alternative to expensive and bulky RF test equipment. As shown in the setup in the upper right the S-Series system can be utilized to simultaneously provide all RF functions using its 7 inch front panel display or can be connected to a larger monitor for ease of viewing multiple windows at the same time. For more information and specifications on the S-Series please visit our website or contact us at 847-592-6350.

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S-Series Test System Specifications

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Spectrum Analyzer and Measuring Receiver

- Frequency Range: 1Hz to 4.4GHz (RF Preamp Off); 500kHz to 4.4GHz (RF Preamp On)
- Internal Frequency Reference Accuracy: ±1 ppm
- Counter Accuracy: ± (1Hz + time-base error)
- Resolution Bandwidth: 0.1Hz to 250kHz and 5MHz
- AMPLITUDE (RBW ≤100 KHZ)
- Range: +10dBm to Displayed Average Noise Level (DANL)
- Absolute Accuracy: ±1.5dB (0dBm to DANL); ±2.0dB

(+10dBm to >0dBm)

Displayed Average Noise Level: (dBm/Hz with 0dB input attenuation)

FREQUENCY	RF PREAMP OFF	RF PREAMP ON	
10Hz	-124 dBm	NA	
100Hz to 10kHz	-135 dBm	NA	
10KHz to 500kHz	-142 dBm	NA	
500kHz to 10MHz	-142 dBm	-153 dBm	
10MHz to 100MHz	-148 dBm	-161 dBm	
100MHz to 1GHz	-144 dBm	-158 dBm	
1GHz to 2.6GHz	-139 dBm	-151 dBm	
2.6GHz to 3.3GHz	-135 dBm	-151 dBm	
3.3GHz to 4.4GHz	-128 dBm	-134 dBm	

MEASURING RECEIVER

- Operating Frequency 150kHz to 4.4GHz
- FM Accuracy ±1% typical
- AM Accuracy ±1% typical
- Synchronous Level Detector ±0.25dBc ([0dBm to -125dBm
- 150kHz to 1GHz] and [0dBm to 115dBm, 1GHz to 4.4GHz])

Average power sensor

Specifications:

- Wide bandwidth, 1 to 8000 MHz50 dB Dynamic Range, -30 to +20 dBm
- Good VSWR, 1.1:1 typ.
- Fast measurement speed, 30 msec typ.
- Automatic frequency calibration & temperature compensation
 Multi-sensor capability (up to 24)
 Built in Application Measurement Software

- Remote operation via internet
- Effective, easy-to-use Windows® GUI

Amplifier 1

Specifications:

Frequency: 500 to 4200 MHz Power Output: 5 watts Gain: 25

Amplifier 2

Specifications:

Frequency: 20 to 1000 MHz Power Output: 20 watts

Dual Channel RF Signal Generator

54 MHz - 13.6 GHz

Features

Open source Labveiw GUI software control via USB 96MHz 32 bit ARM processor on board

Two channel frequency, phase and amplitude control Quadrature (or other phase) LO signal generation

0.1Hz or less frequency resolution

2.5ppm generator frequency accuracy 01 degree phase control on each channel

4mS RF lock time standard

70uS RF lock time (TBD) (subject to export control)

Up to +20dBm output power

16 bit 0.01dB amplitude resolution Over 50dB of power control

Absolute power display on Software GUI

Calibration option

10MHz – 100MHz external reference input Selectable 10 or 27 MHz internal reference output Internal and external FM, AM, Pulse Modulation

Pulsed FMCW Chirp

External Sweep, Step and modulation Trigger 100 point Frequency and Amplitude Hop Table

Dual Channel Frequency and Amplitude Lock Daughter card expandability (custom applications)

Channel enable / disable saves energy

Tracking Generator

FREQUENCY

Frequency range: 100 kHz to 4.4 GHz

Frequency Accuracy: ±1ppm Frequency steps: 19 selectable step sizes from 10 Hz to

10 MHz (100 kHz to 4.4 GHz range)

AMPLITUDE

Amplitude range: -30 dBm to -10 dBm Absolute Amplitude accuracy ±2 dB

Amplitude steps: 1 dB

Four Channel Digital Oscilloscope

Features

Bandwidth 100MHz 4 CH Real-time Sampling Rate 1GSa/s Memory Depth Time Base Precision

Time Base Range 2ns/div-1000s/div (1-2-4

sequences) Input Impedance $1M\Omega$ 25pFInput Sensitivity 2mV/div~10V/div 2mV~10V/div @ x1 probe Vertical Displacement @ x10 probe; 20mV~100V/div @ x100 probe; 200mV~1000V/div 2V~10000V/div @ x1000 probe

Trigger Source CH1, CH2, CH3, CH4

DC~25MHz 2K~200MHz adju Waveform Frequency Frequency Resolution 0.10% 1CH waveform Waveform Depth 2KSa Vertical Resolution 12 bit Frequency Stability <30ppm Wave Amplitude ±3.5V M Output Impedance System BW 25M

c(1KHz), -40dBc(10KHz)

Harmonic Distortion -50dBc(1KHz), -Trigger ModeEdge, Pulse, Video, Alternativ Positive Width, Negative Width, Duty Cycle Arbitrary Waveform Generator Mode

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