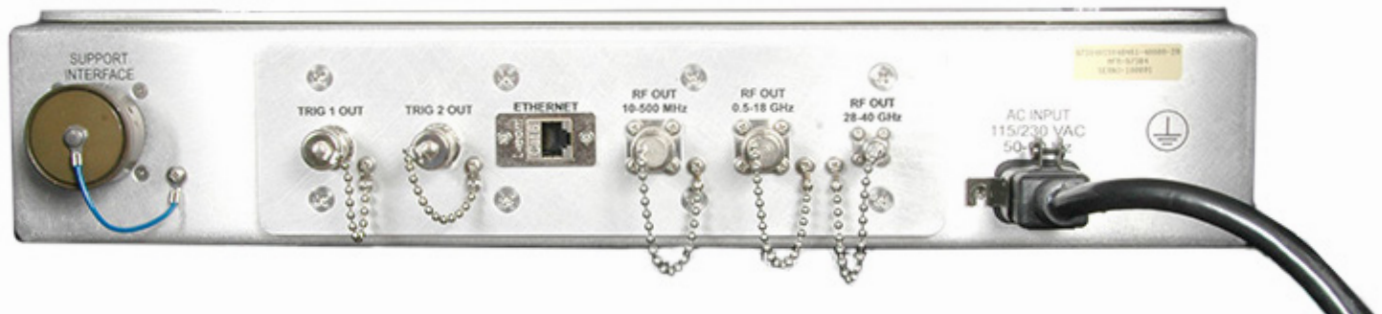


Part Numbers:  
40504-40000-10  
40504-40000-20  
40504-40000-30  
(Front-mounted connectors)  
40461-40000-20  
(Rear-mounted connectors)  
Specifications subject to change  
without notice.



# LAB MODEL 527™ RF SIMULATOR

PROVIDING CONFIDENCE AND RELIABILITY THROUGH RADIO FREQUENCY (RF) TEST SOLUTIONS.

The Textron Systems Lab Model 527 RF simulator is a compact, high fidelity system designed for electronic combat systems testing. Sized for a 19-inch rack to accommodate a laboratory environment, the Lab Model 527 also can be utilized as an RF generation subsystem in a high-power system.

**TEXTRON** Systems

Electronic Systems  
124 Industry Lane, Hunt Valley, MD 21030 | 800.655.2616 | [electronicsystems@textronsystems.com](mailto:electronicsystems@textronsystems.com)  
[www.textronsystems.com/es](http://www.textronsystems.com/es)

# LAB MODEL 527

## RF SIMULATOR

### CHARACTERISTICS & BENEFITS



#### FREQUENCY RANGE

Fully tunable for continuous-wave and pulsed emitters from 10 MHz to 18 GHz, and from 28-40 GHz



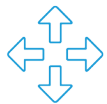
#### MODULATION TECHNIQUES

Bi-phase, chirp, frequency, pulse width and pulse repetition agility through standard models and user-defined modulations



#### NUMBER OF EMITTERS

Eight, fully independent in frequency, pulse width, pulse repetition and scan model



#### FULLY PROGRAMMABLE SCAN

Standard scan models with advanced waveforms including circular, sector, spiral and conical



#### AC POWER

50-60 Hz; 90-264 V using a lab-standard cable equipped with a three-prong IEC-320 C14 for connection to 60 Hz, 120 V alternating current (VAC) outlets



#### MAXIMUM CURRENT DRAW

1 amp at 115 VAC or 0.5 amp at 230 VAC



#### CONTROL AND OPERATION

Ethernet



#### TEMPERATURE (OPERATING)

Operating: 0 to 40°C  
Non-Operating: -20 to 70°C



#### RELATIVE HUMIDITY

80 percent  $\pm$  5 percent at 31°C, decreasing linearly to 50 percent at 40°C (non-condensing)



#### WEIGHT

Less than 30 lb



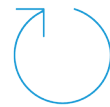
#### RF OUTPUT POWER

Zero dBm



#### MINIMUM PULSE WIDTH

50 ns



#### MINIMUM PULSE REPETITION

1  $\mu$ sec



#### FREQUENCY ACCURACY

$\pm$  0.002 percent single frequency output;  $\pm$  20 MHz for multiple frequency output

As a complement to other established Textron Systems lab assets, such as the Advanced Architecture Phase, Amplitude and Time Simulator (A<sup>2</sup>PATS™) and Lab Joint Service Electronic Combat Systems Tester (JSECST™), the Lab Model 527 contains a fully programmable stimulus system with vertical test integration to both the A<sup>2</sup>PATS and Lab JSECST. Its emitters also are compatible with the AN/USM-670 JSECST, A<sup>2</sup>PATS and Lab JSECST, further enhancing vertical test capability and minimizing programming time. The Lab Model 527 is rendered unclassified after power-down, which removes all data from RAM, and also remains unclassified during periodic maintenance, training, calibration or alignment.

RF connectors provide standard RF power output, and may be located on either the system's front or back. Multiple emitters, scenarios and/or sequences are programmed offline using a personal computer, or PC, based graphical user interface. Numerous simulations are possible, from simple signal emitters to complex, time multiplexed RF emitters.

For information within the  
United States, please contact:  
Textron Systems Electronic Systems  
124 Industry Lane  
Hunt Valley, MD 21030  
1-800-655-2616 or 410-666-1400  
electronicsystems@textronsystems.com

For information outside the  
United States, please contact:  
Textron Systems Electronic Systems UK  
16 Compass Point, Ensign Way  
Hamble, Southampton Hampshire SO31 4RA  
+(44) 2380455110  
electronicsystems@textronsystems.com

**TEXTRON** Systems