

ELECTRONIC COUNTER MEASURE TARGET SIMULATOR SPECIFICATIONS**RF CHARACTERISTICS**

2-18 GHz Operation
Up to 1.2 GHz Instantaneous Bandwidth
Dynamic Range: Up to 100 dB
RF On/Off Isolation > 100dB
Amplitude Resolution: 0.25 dB
Spurious/Harmonics: <-42 dBc, <-50 dBc typical
Input Power -55 to +5 dBm
Output Power: +10 dBm typical
Doppler Control: ± 2 MHz
Doppler Resolution: <0.05 Hz

GUI FUNCTIONALITY

Windows based / Pentium PC
User Defined ECM Techniques
User Defined Scenario Definitions
User Defined Target Parameters:
Mean RCS, 3-D RCS File, JEM & Scintillation
Comprehensive Built-In Test

DRFM CHARACTERISTICS

Pulse Width: 20 ns to CW
Latency: <300 nsec
Memory Depth: up to 14,000 usec
Range Resolution: <1 nsec
Sample Rate: Up to 2.2 GHz
DRFM Modes: Pipeline, Stretched Pulse,
Multiple False Target and Synthetic CW
Scenario Update Rate: 1 kHz minimum
Read/write Access to DRFM Memory

ECM/TS OPTIONS

1-4 or more DRFM Channels
Multiple simultaneous radar support
50 MHz to 1.2 GHz Bandwidth DRFMs
1-12 bit DRFM Options Available
RF Operation below 2 GHz, K and W band
Additional Antennas, Amplifiers, Receiver, Transit Cases
Target Modulation Options for User Defined 3-D RCS,
JEM, and Scintillation
Option for Direct Injection into Radar Under Test
Up to 20 KHz Scenario/Technique Update Rate

ECM TECHNIQUES**NOISE**

Doppler Noise
Fixed Spot/Barrage
Swept Spot
Gated/Blinking Spot

RANGE DECEPTION

RGPO/RGPI
Multiple Range False Targets
Cover Pulse
Random Range Targets

COORDINATED

Synchronized RFPO/I & VGPO/I
Unsynchronized RGPO/I & VGPO/I

VELOCITY DECEPTION

VGPO/VGPI
Velocity False Targets

AMPLITUDE

Inverse Gain
Amplitude

Modulation

Angle Deception

MASKING

Range Bin Masking
Velocity Bin Masking
Asynchronous Pulse
Repetition Masking
Combined Range & Velocity Bin Masking
Synthetic CW