SPEDIS-TX

Electronic Warfare Simulator

Spedis-TX is the family of electronic warfare simulators developed by ZETA Defense Inc. The system is capable of simulating controllable RF environment to the passive radar or ELINT system and ensures that the radar system is ready to operate in the field with success. Complex signal agility modes can be defined to create realistic spectrum to DUT (device under test) with up to 64 emitters simultaneously being simulated. Easy to deploy portable version is available for range testing and workbench use. Advanced versions available for anechoic chamber installation, tower testing and other test site installations. Spedis-TX supports operation up to 18 GHz and can be used for both direct injection and radiation modes.



Highlights

- Agility in PRI, PW, Carrier Frequency
- Modulation
- Antenna Scan
- Antenna Pattern

Technical Specifications

Frequency Band	0.5 GHz – 18 GHz
Instantaneous Bandwidth	1 GHz
Pulse Width	50 ns to 100 ms
PRI	1us to 1 sec
Dynamic Range	80 dB block (40 dB instantaneous)
Noise Jammer	Barrage (50/100/200 MHz) / Spot (1/2/5/10/20 MHz)

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Features

PRI, PW and Carrier Agility Types

- Constant
- Jitter
- Stagger
- Dwell & Switch
- Wobbulation
- Burst

Modulation Types

- Frank Code
- Zadoff
- P Code
- Barker
- QPSK, Custom-QPSK, BPSK, Custom-BPSK
- Custom Phase Pattern
- FM, AM

Antenna Pattern Types

- Uniform
- CosX
- Fixed
- Custom
- Pencil
- Cosec

Antenna Scan Types

- Circular
- Conical
- Bidirectional Raster
- Unidirectional Raster
- Sector
- Helical
- Spiral
- Random (Min. 100 us)

Warranty

All hardware and software procured from Zeta is under warranty against manufacturing or design failures for 2 years. Customers specific demands for may also be arranged.

Disclaimer

Due to ongoing R&D, Zeta reserves the right to change the product specification without notice.

About Zeta Defense

Zeta Defense was founded in February 2015 to develop Electronic Intelligence (ELINT), Communication Intelligence (COMINT) equipment and Radar/Electronic Warfare Simulators,. Our capabilities include RF transceiver system design, digital design and large-scale software development.

- The areas of expertise of the company can be summarized as follows:
- Radar Target and Environment Simulators
- Electronic Warfare Simulators
- Spectrum Monitoring Systems
- Communication Systems

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