



FEI-Elcom Tech

UFS

Combat Electronic Environment Simulation - 0.3 - 18 GHz ULTRA WIDE BAND FREQUENCY SYNTHESIZER

FEATURES

- Ultra-Fast Coherent Switching Speed: 250 nsec, Full Band, 500 MHz to 40GHz in 1 Hz Resolution
- FPGA DDS w/100ns, 1 Hz step, 1Gsps 14-bit DAC
- Phase Noise Floor: -147dBc up to 18 GHz
- Phase Noise: -135dBc/Hz 1MHz offset@10 GHz
- Clean Signal: -70 dBc Spurious, -50 dBc Harmonics
- User accessible 3GHz IF Loop-back capabilities
- MTBF@20,000 +hours
- Ruggedized VCO based PLL synthesizers



BENEFITS

- Simulates unlimited, multiple emitters - no limitations
- Improves target range and resolution leveraging proprietary phase coherent switching and Industry's lowest phase noise
- Increases frequency hopping speed
- Synthesizes a signal phase coherent to reference
- Synthesizes a signal phase continuous to reference
- Accurate digital frequency synthesis
 - On Pulse FM Modulation
 - Wide FM Chirp
 - IF IQ modulation
 - Linear IQ modulation
 - Modulation on Pulse

WIDE FREQUENCY RANGE:

<u>PRODUCTS</u>	<u>FREQUENCY RANGE</u>
UFS-18	300 MHz to 18.0 GHz
UFS-3	500 MHz to 3.0 GHz
UFS-4	300 MHz to 4.0 GHz
UFS-12	500 MHz to 12.0 GHz
UFS-13	500 MHz to 13.5 GHz
UFS-20	2.0 GHz to 20.0 GHz
UFS-400	500 MHz to 40.0 GHz
UFS-1027	100 MHz to 18.0 GHz
UFS-1035	50 MHz to 4.0 GHz