



# Prime STALO

## Stable Local Oscillator

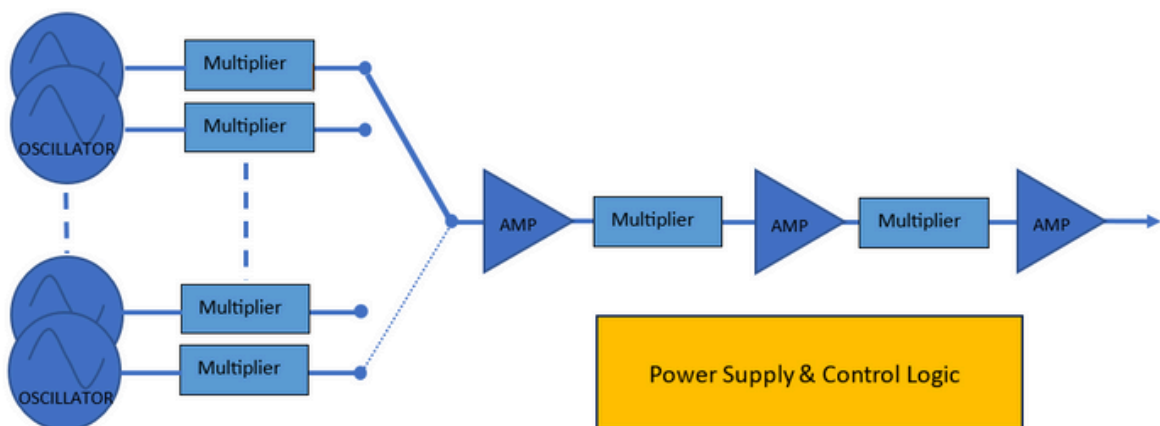
Prime STALO is an agile frequency generator with outstanding signal performance. At the heart of a radar system, it provides multiple frequencies with seamless switching and phase settling time between channels. Each channel is derived from its own independent oscillator giving it exceptional coherence over time between pulses. This, combined with the very low phase noise performance, makes it ideal for use as the primary signal source in Pulsed Doppler RADAR.

**RADAR • AIR • SEA • LAND**

## FEATURES & BENEFITS

- ◆ Excellent phase noise to enhance detection accuracy of the radar
- ◆ Multiple channels to minimise likelihood of detection by unfriendly Radar ESM systems
- ◆ Seamless frequency switching and phase settling time
- ◆ Multiple frequencies enabling excellent clutter reduction capabilities
- ◆ Maintains channel pulse-to-pulse coherence
- ◆ Rugged construction suitable for operation in harsh environments

## BLOCK DIAGRAM





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## SPECIFICATION PARAMETERS

Performance Parameter	Data
Operating Frequency Range	3.6-3.9GHz
Number of Fixed Channels	30*
Frequency Switching Time	25us
Frequency Settling Time	2uS ( $\pm 200\text{KHz}$ )
Amplitude Settling Time	25uS ( $\pm 0.2\text{dB}$ )
Phase Settling Time	25uS ( $\pm 0.5^\circ$ )
RF Output Power	20dBm
DC Voltage	+15V
DC Power	60W max. (dependent on number of channels)
Size	300x190x130mm
Weight	10.5Kg
Storage Temperature	-40°C to +75°C
Phase Noise	dBc/Hz
10	-40
100	-90
1KHz	-110
10KHz	-125
100KHz	-130

*\*If you have a need for different frequencies and/or number of channels than is listed in the table above, we would be pleased to discuss your specific requirements.*

**Get in touch to learn about our next generation DDS STALO technology**