



SiTime MEMS timing benefits

Precision Timing

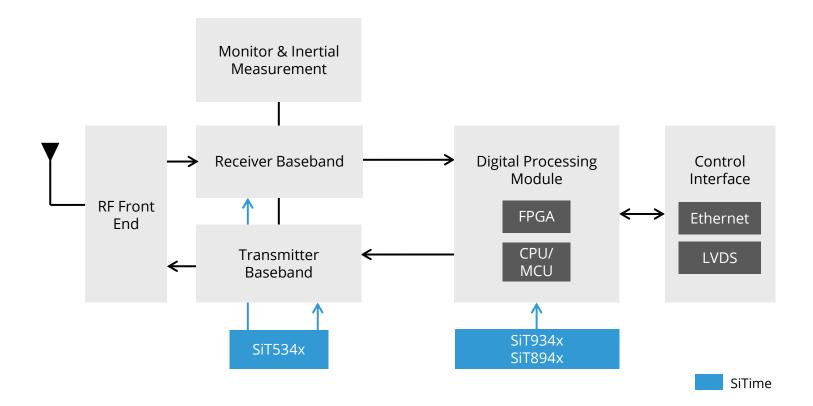
- 20x better mechanical shock survivability
- 4x better vibration resistance
- 4x better ΔF/ΔT, airflow and heat resistant

Most Robust in Harsh Conditions

- 50x better acceleration sensitivity
- ±100 ppb up to 105°C
- No activity dips

Higher Reliability

- Conforms to MIL-PRF-55310
- No quartz reliability issues
- No cover or shielding



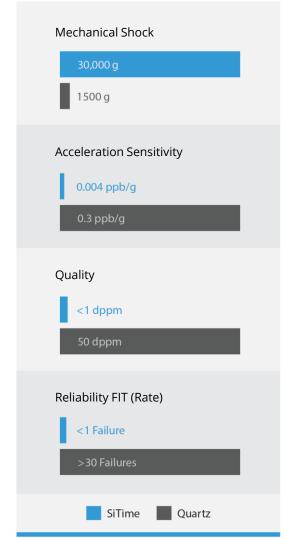
Application	Devices	Туре	Function	Key Features
Smart guided munitions	SiT5346 SiT5347 SiT5348 SiT5349	Super-TCXOs	Reference clock for baseband	1 to 220 MHz, 0.004 ppb/g, ±100 ppb, ±1 ppb/°C
	<u>SiT9346</u> <u>SiT9347</u>	Differential XOs	FPGA & processor clocking	1 to 725 MHz, ±10 ppm, 0.1 ps RMS phase jitter
	<u>SiT8944</u> <u>SiT8945</u>	Single ended XOs		1 to 137 MHz, ±20 ppm, -55°C to 125°C







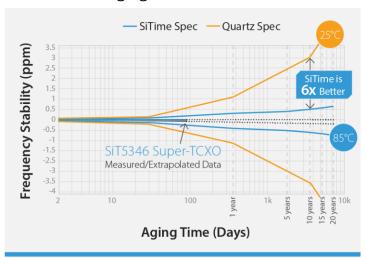
Outperform Quartz



Conforms to MIL Specifications

Conforms to Mile Specifications								
MIL-PRF-55310	Test	Single-ended XO	Differential XO/ VCXO/DCXO	TCXO				
3.6.40.1	Shock	•	•	•				
4.8.18.3.1	g-Sensitivity		•	•				
3.6.34.1	Frequency aging	•	•	•				
3.6.17.1	g-sensitivity, constant acceleration	•	•	•				
3.6.38.3	Phase noise under vibration	•	•	•				
3.6.10.2	Frequency-temperature stability with hysteresis	•	•	•				
3.6.45.2	Ambient pressure	•	•	•				
3.6.16.5	Allan deviation	n/a	n/a	•				
3.6.10.4	Frequency-temperature stability with hysteresis and trim effect	n/a	•	•				
3.6.15	Retrace	n/a	n/a	•				
3.6.30.7	Modulation frequency response	n/a	•	•				
3.6.41.1	Acceleration survivability	•	•	•				
3.6.7	Frequency warm up	n/a	n/a	•				

Best-In-Class-Aging



Lower Acceleration (g) Sensitivity

