

SiTime MEMS Timing Benefits

Leading vendor in Industrial

- Infrastructure fault detection
- Earthquake detection
- Geological exploration

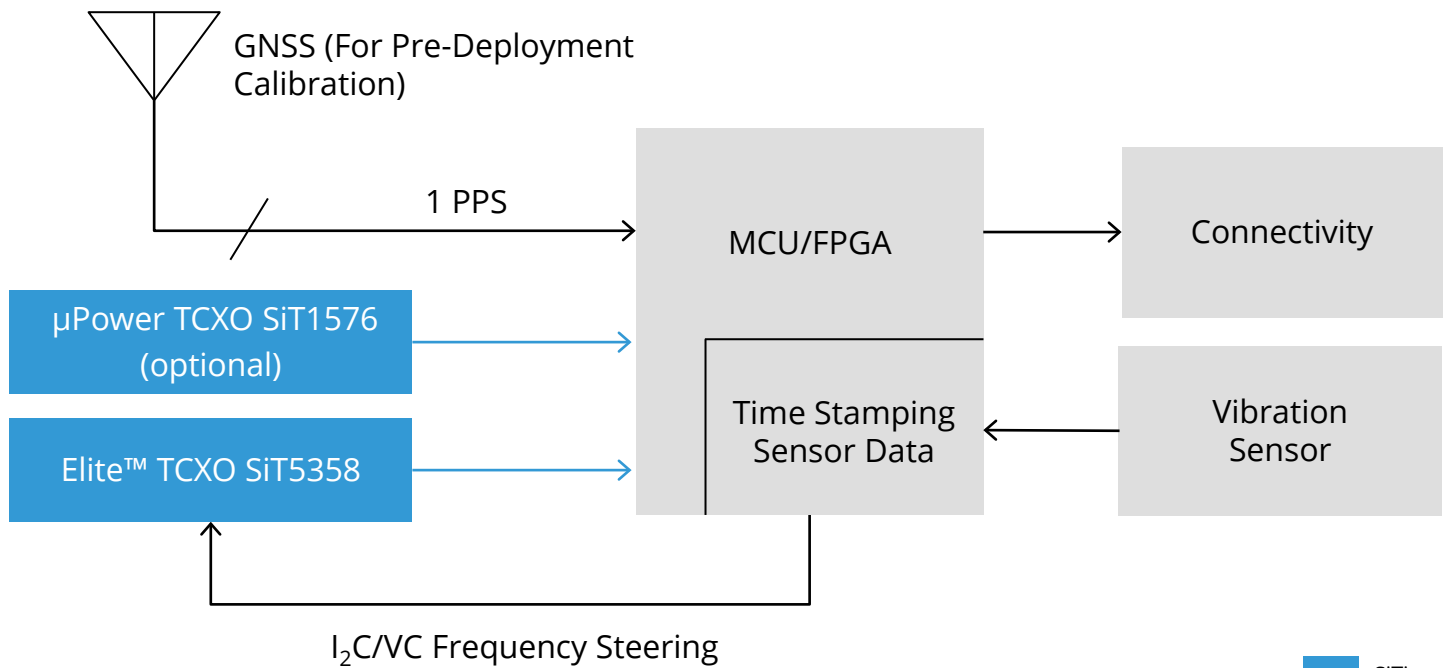
Most robust in real world conditions

- 4x better dF/dT for best time stamping
- 70 g vibration and 30,000 g shock
- 6 μ A current for extended deployment

Easy to use, built to last

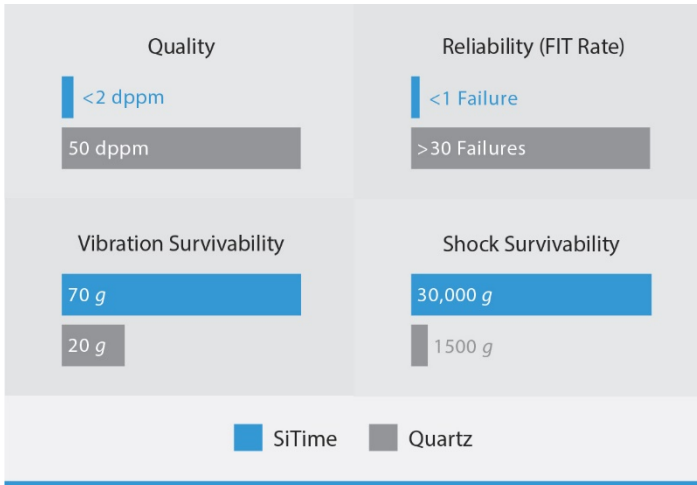
- Custom configured solution
- No quartz reliability issues
- 1 billion hour MTBF

MEMS Timing Solution for Seismic Sensors

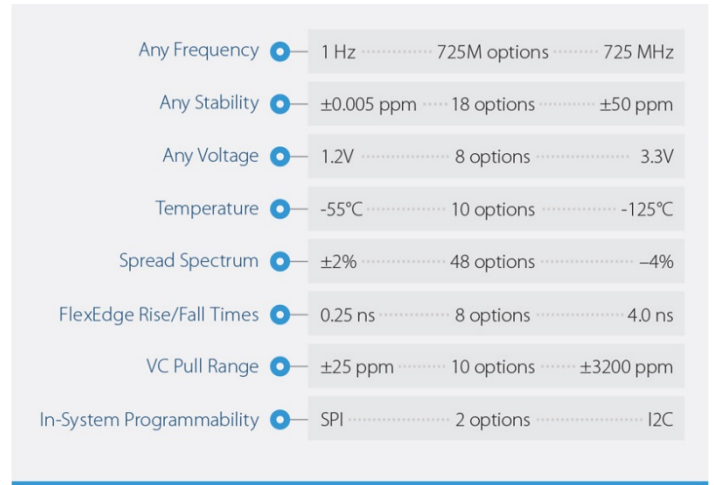


Devices	Type	Function	Key Features
SiT535x	Super-TCXO	Time Stamping and Reference	1 to 220 MHz, ± 50 to ± 250 ppb, ± 1 ppb/ $^{\circ}$ C, ± 80 ppb 20-year aging, 70g vibration survivability
SiT1576	μ Power TCXO	Low Power Reference	1 Hz to 2.5 MHz, ± 5 ppm total stability, 6 μ A current consumption

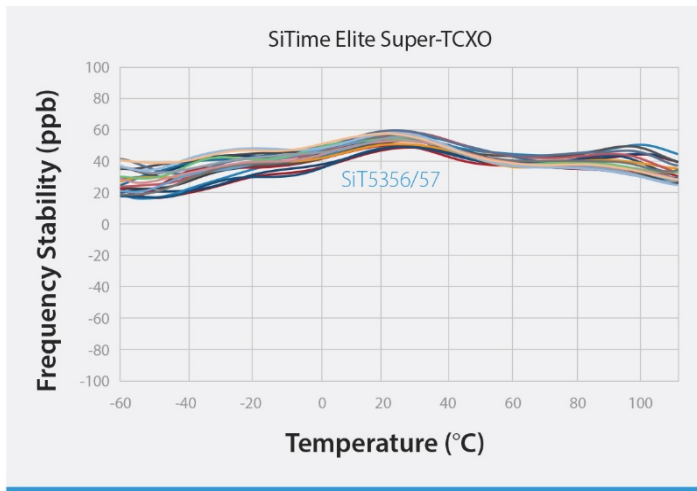
Better Quality, More Robust



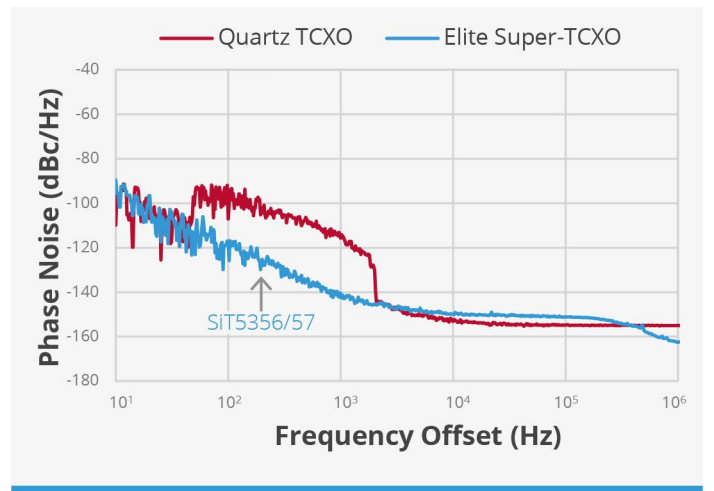
Millions of Configurations



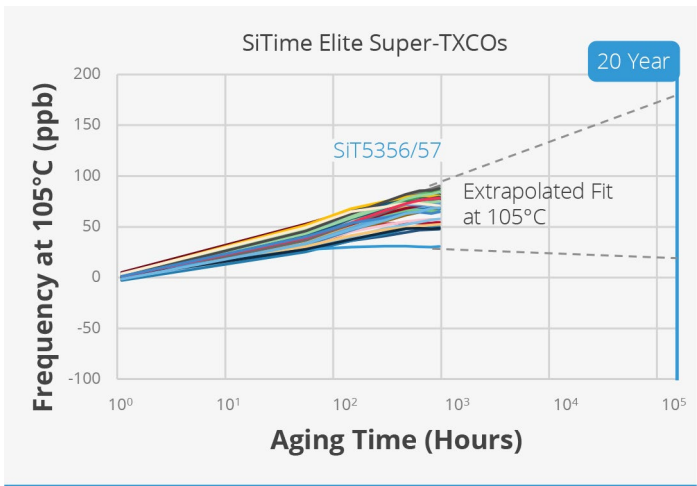
Better Stability



Better Vibration Resistance



Better Aging



Better PSNR (Power Supply Noise Rejection)

