MEMS Timing Solutions for Fronthaul Switches

SiTime MEMS timing benefits

Complete MEMS clock tree

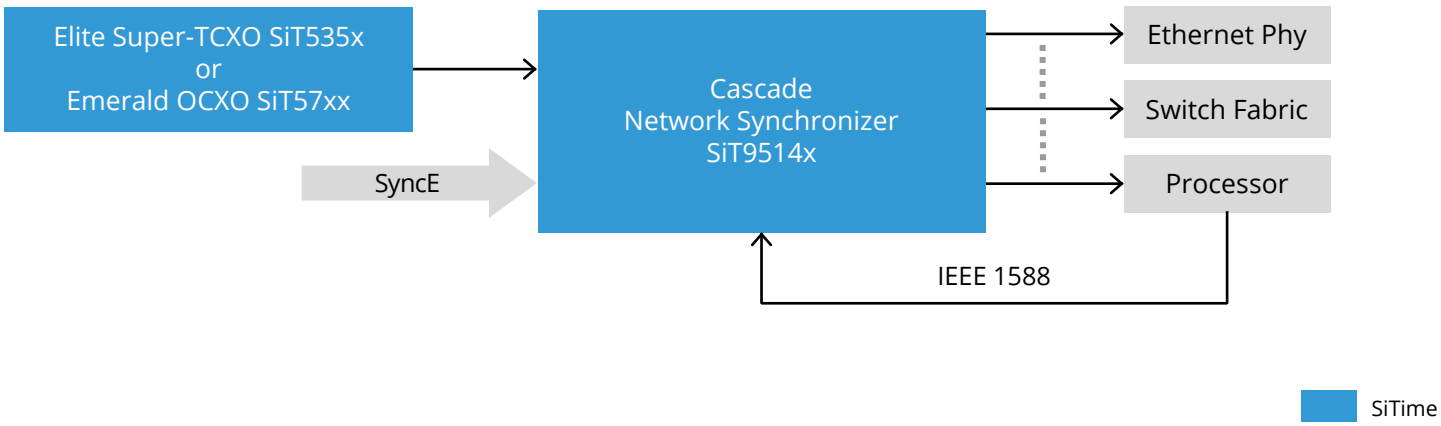
- Precision MEMS TCXO
- Stratum 3E MEMS OCXO
- MEMS clock IC/PLL

Most robust in real world conditions

- 4x better dF/dT for accurate IEEE 1588
- Resistant to airflow, heat, vibration
- Smart clock monitoring and hit switching for redundancy

Integrated MEMS, easy to use

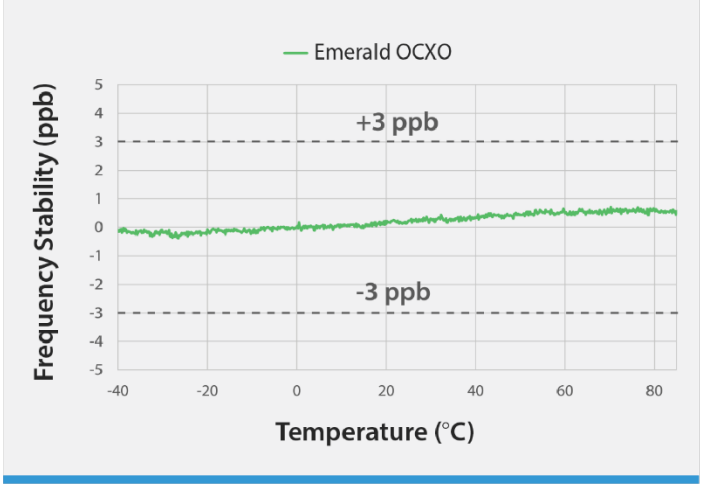
- No external quartz
- No quartz reliability issues
- No cover or shielding



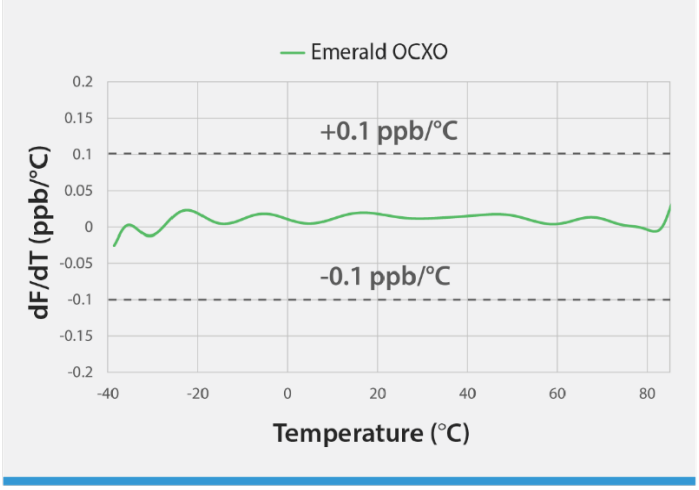
Application	Devices	Type	Function	Key Features
Fronthaul switch	SiT535x	Super-TCXO	Reference clock for jitter cleaner and IEEE 1588	1 to 220 MHz, ±100 ppb, ±1 ppb/°C 105°C
	SiT57xx	OCXO		1 to 60 MHz, ±5 ppb, ±0.04 ppb/°C
	SiT9514x	Network synchronizer	Ethernet, processor	4-in, 11-out, 4-PLL, 8 kHz to 2.1GHz
	SiT9501, SiT9375	Differential XO	Ethernet, FPGA	25 MHz to 644.53125 MHz, 0.1 to 0.2 ps jitter, 105°C

MEMS Timing Outperforms Quartz

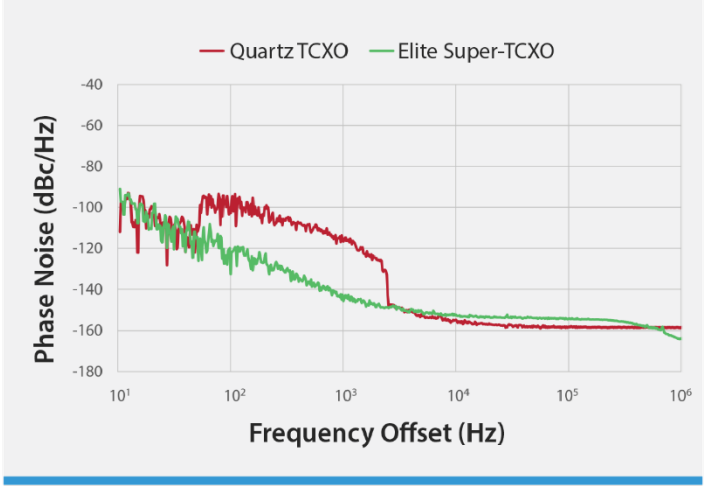
Better Stability



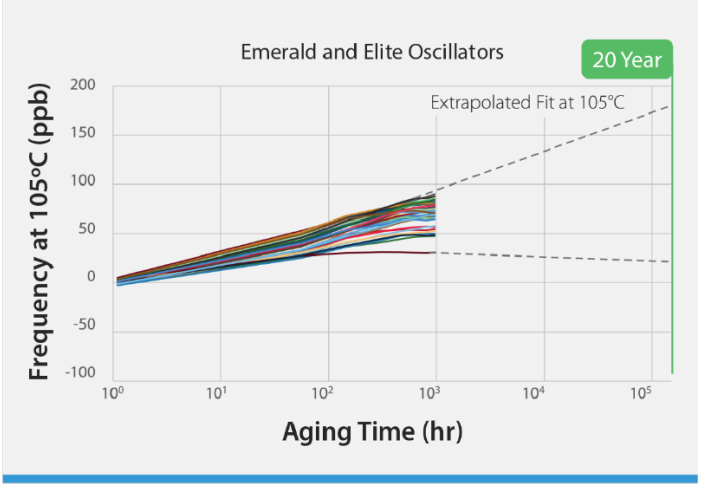
Better Frequency Slope



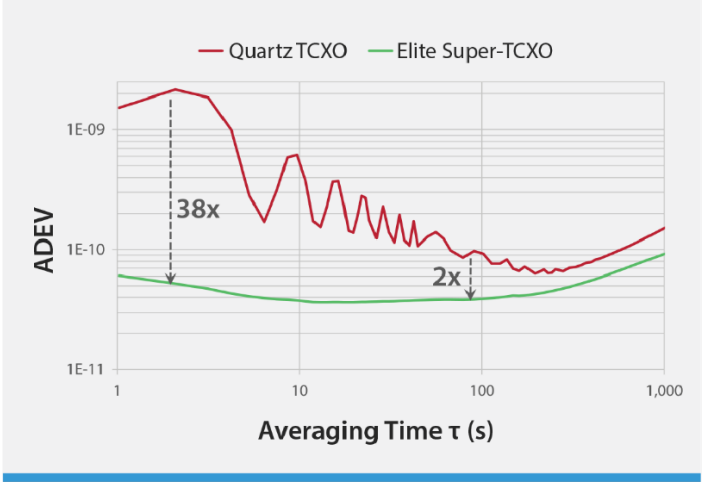
Better Vibration Resistance



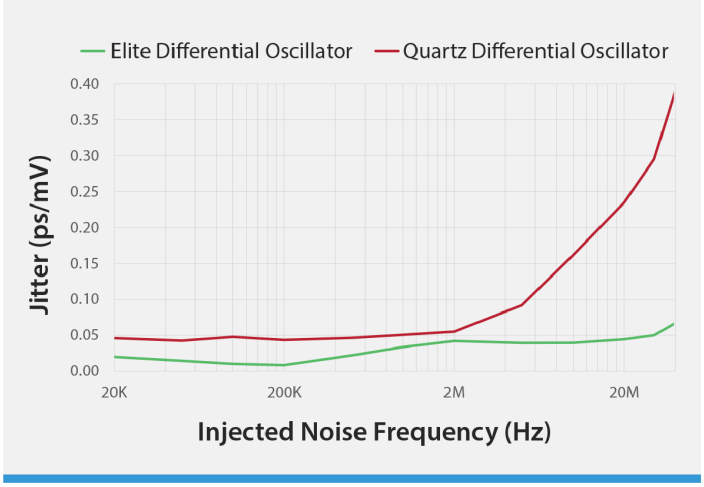
Better Aging



Better Allan Deviation



Better PSNR (Power Supply Noise Rejection)



Learn more about SiTime's Comms-Enterprise timing solutions

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