SiTime™

MEMS Timing Solutions

LIFETIME WARRANTY

RoHS compliant 2002/95/EC

MEMS Field Programmable Oscillators

ael Frequency Control Products

Static sensitive device

Instant Oscillators

Field programmable oscillators can be programmed by the Time Machine II to support a wide range of oscillator configurations:

- Any frequency
- Any voltage
- Any stability
- Any package

Don't waste time searching and waiting for oscillators. Program SiTime MEMS field programmable devices to your exact specification and create drop in replacements for legacy quartz oscillators within seconds.

Supported Oscillator Families	• Low power: SiT8008, SiT8009, SiT1602 • Ultra performance: SiT8208, SiT8209 • Differential: SiT9120, SiT9121, SiT9122 • High temperature: SiT1618, SiT8918, SiT8919, SiT8920, SiT8921 • AEC-Q100 automotive: SiT2024, SiT2025, SiT8924, SiT8925 • Clock generator: SiT2001, SiT2002, SiT2018, SiT2019, SiT2020, SiT2021 • Single-ended VCXO: SiT3807, SiT3808, SiT3809 • Differential VCXO: SiT3821, SiT3822 • Spread spectrum: SiT9001, SiT9002 • Differential spread spectrum: SiT9002
Frequency Range (MHz)	1 to 625
Frequency Stability (PPM)	±20, ±25, ±30, ±50
Temp Range (°C)	-20 to +70, -40 to +85, -40 to +105, -40 to +125, -55 to +125
Supply Voltage (V)	1.8, 2.5 to 3.3
SoftEdge™ Rise/Fall Time (ns)	1 to 6 (configurable, coming in next Time Machine software release)
Pull Range (PPM)	±25, ±50, ±100, ±150, ±200, ±400, ±800, ±1600 (VCXO Only)
Spread %	±0.25, ±0.5, ±1.0, ±2.0, -0.5, -1.0, -2.0, -4.0 (Spread spectrum XO only)
Package LxWxH (mm)	2.0x1.6x0.75, 2.5x2.0x0.75, 2.9x2.8x1.25, 3.2x2.5x0.75, 5.0x3.2x0.75, 7.0x5.0x0.9
Status	Production
Applications	• Instant samples • Drop-in replacement of legacy crystal oscillators • Fast prototyping