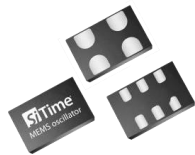


# Instant Oscillators

Complete easy-to-use programming kit for SiTime's field programmable devices

- Any frequency
- Any voltage
- Any stability



Don't waste time searching and waiting for oscillators. The Time Machine II™ allows you to easily configure SiTime always-in-stock field programmable devices to your exact specification and create drop in replacements for legacy quartz oscillators within seconds.

## Benefits

- Optimize system performance with custom frequencies
- Reduce EMI with programmable drive strength
- Quickly develop prototypes and reduce design time with instant oscillators

## Applications

- Ultra-Performance Oscillators: [SiT8208](#) | [SiT8209](#)
- Differential Oscillators: [SiT9120](#) | [SiT9121](#) | [SiT9122](#)
- Low Power Oscillators: [SiT8008](#) | [SiT8009](#) | [SiT2001](#) | [SiT2002](#) | [SiT1602](#)
- High Temp Oscillators: [SiT8918](#) | [SiT8919](#) | [SiT8920](#) | [SiT8921](#) | [SiT2018](#) | [SiT2019](#) | [SiT2020](#) | [SiT2021](#) | [SiT1618](#)
- AEC-Q100 Automotive Oscillators/Clocks: [SiT8924](#) | [SiT8925](#) | [SiT2024](#) | [SiT2025](#)
- VCXOs: [SiT3807](#) | [SiT3808](#) | [SiT3809](#)
- Spread Spectrum Oscillators: [SiT9003](#) | [SiT9005](#)
- Ruggedized: [SiT5146](#) | [SiT5147](#) | [SiT5346](#) | [SiT5347](#) | [SiT5348](#) | [SiT5349](#) | [SiT9346](#) | [SiT9347](#)

## Features

### Easy to Use

- USB powered programmer
- Add-on cards with directional connectors and indicators
- Anti-slip bumps hold programmer in place
- One-click programming software
- Built-in part number generator
- Programming history
- Auto software update
- Compatible with all PCs and Microsoft Windows

### Complete Solution

- Small carrying case holds programmer and all accessories
- Add-on cards (socket cards) support 6 oscillator packages
- Sample field programmable device packs
- Complete documentation

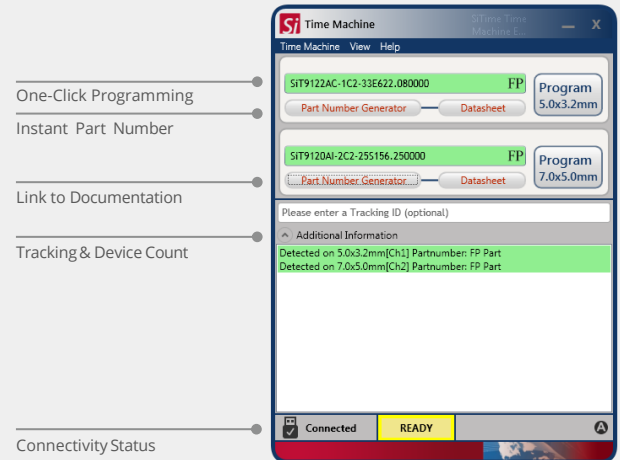
### Future Proof

- Software and hardware upgradable for future products
- Durable socket card connectors rated at 5000 insertions

### Program Oscillators in 3 Simple Steps

1. Mount the field programmable device
2. Specify desired configuration
3. Program

See how easy it is to program SiTime devices using the Time Machine at: [sitime.com/time-machine-video](http://sitime.com/time-machine-video)



### Configure Devices to Your Exact Specification

Customizable Frequency	Differential: 1 to 725 MHz Single-ended: 1 to 220 MHz	6 decimals of accuracy
Frequency Stability	±0.05 to ±50 ppm	
Supply Voltage	1.8 V, 2.5 to 3.3 V	
Pull Range	Programmable from ±50 to ±1600 ppm in VCXO and up to ±3200 ppm in DCXO	
Drive Strength Control	0.25 to 40 ns rise/fall time for low to high output drive and load	
Spread Spectrum	±0.25 to ±2.0% center spread and -0.5 to -4.0% down spread	

### Additional Options

Package Options	CSP: 1508; QFN: 2016, 2520, 3225, 5032, 7050; SOT23-5: 2928; SMD: 3225, 5032, 7050
Temperature Range	0 to +70°C, -20 to +70°C, -40 to +85°C, -40 to +95°C, -40 to +105°C, -40 to +125°C, -55 to +125°C
Output Signaling	Differential: LVPECL, LVDS, or HCSL Single-ended: LVCMOS, Clipped Sine



### Kit Contents (SiT6100DK)

- Programmer
- Adapter board(s)
- USB Cable
- Tweezers
- Field Programmable Oscillators



### > Download

[Time Machine II Software](#) | [Field programmable oscillators](#) | [Programmer and adapter cards](#) | [User Manual](#)