

TIME MACHINE II – MEMS-OSCILLATOR-PROGRAMMING-KIT

SiT6100DK Software



The starter kit includes three adapter cards for the reception of the 6 possible MEMS oscillator housing types, as well as some samples of field-programmable oscillators. Via the supplied USB cable, the Time Machine II™ can connect to a computer. The Windows compatible software is available by included USB Flash Drive or can be downloaded from SiTime Website.

The **Time Machine II™** from manufacturer SiTime is a complete MEMS-Oscillator-Programming-Kit. It allows you easily to configure SiTime's field programmable oscillators to your exact specification and to create drop-in replacements for legacy quartz devices in seconds.

Thus, the development time can be reduced and system performance can be optimized with custom frequencies adjustable frequency tolerance and temperature range. In addition, from standby or output enable function can be selected.

For larger loads or to obtain the optimum EMI performance is also the driving strength and slew rate selectable for most types.

TIME MACHINE II – SOFTWARE

When creating the oscillator specification the unique part number will be generated simultaneously and the program history is recorded by the software.

The screenshot shows the 'SiTime Logs viewer' application window. It features a menu bar with 'Format', 'Extras', 'Tabelle', 'Fenster', 'Z', 'Addre PDF', and 'Acrobat-Kommentare'. Below the menu is a toolbar with 'Standard + Arial, 10 pt' and a search icon. The main area contains a table with columns for 'From', 'To', 'Operation', 'Operation Result', 'Tracking ID', and 'PartNumber'. Below this is a data table with columns for 'DateTime', 'Operation', 'Operation Result', 'TrackingID', and 'Part No.'.

From	To	Operation	Operation Result	Tracking ID	PartNumber
Select a date 15	Select a date 15	All	All	All	
DateTime	Operation	Operation Result	TrackingID	Part No.	
6/26/2014 4:15:06 PM	Program	Pass	Tracking ID was not set.	SiT8920AM-23-33E-29.997000	
6/26/2014 4:14:28 PM	Verify	Pass	Tracking ID was not set.	SiT8920AM-23-33E-29.997000	
6/26/2014 4:14:26 PM	Program	Pass	Tracking ID was not set.	SiT8920AM-23-33E-29.997000	
6/26/2014 4:13:14 PM	Verify	Pass	Tracking ID was not set.	SiT8920AM-23-33E-29.997000	
6/26/2014 4:13:13 PM	Program	Pass	Tracking ID was not set.	SiT8920AM-23-33E-29.997000	
6/26/2014 4:12:53 PM	Verify	Pass	Tracking ID was not set.	SiT8920AM-23-33E-29.997000	

PROGRAMMABLE OSCILLATORS

With Time Machine II™ the most common oscillators can be programmed, eg.:

- » Ultra Performance Oscillators: SiT8208, SiT8209
- » Differential Oscillators: SiT9120, SiT9121, SiT9122 (1-625 MHz , <1ps jitter)
- » Low Power Oscillators: SiT8008, SiT8009, SiT1602 (1-137 MHz)
- » High Temp Oscillators: SiT8918, SiT8919, SiT8920, SiT8921, SiT1618 (1-110 MHz)
- » VCXOs: SiT3807, SiT3808, SiT3809 (1-220 MHz , <1ps jitter)
- » Differential VCXOs: SiT3821, SiT3822 (1-625 MHz , <0,75ps jitter)
- » Digitally Controlled Oscillators (DCXOs): SiT3907 (1-220 MHz)

- » Differential DCXOs: SiT3921, SiT3922 (1-625 MHz)
- » Spread Spectrum Oscillators: SiT9001, SiT9003 (1-220 MHz)
- » Spread Spectrum Differential Oscillators: SiT9002 (1-220 MHz)

KIT CONTENTS/DELIVERY

- » SiT6100DK MEMS oscillator programmer & installation software (USB drive)
- » 3 socket cards, USB cable, tweezers
- » Sample field programmable device packs
- » For support you'll find 2 video tutorials below:
http://www.sitime.com/support/time-machine-oscillator-programmer#magictabs_M82U8_5

For more support and information please contact us!