

## General Description

The TimeFlash programmer allows users to rapidly program, through a Microsoft Windows GUI program on a PC, any DSC8XXX Programmable MEMS oscillator to a custom frequency in seconds. Timeflash supports the field programmable versions of the DSC10XX Standard CMOS and the DSC11XX Performance oscillators. The oscillators can be programmed over their respective frequency range in increments of 100Hz.

The TimeFlash programming kit includes a programming dongle, USB cable, antistatic tweezers and USB flash drive with a Windows based PC installation program. The TimeFlash is used with device dependent socket adapter cards and the appropriate DSC8XXX devices.

Available in industry standard packages, the DSC8XXX can be "dropped-in" to the same PCB footprint as standard crystal oscillators.



## Features

- Small dongle interfaces through USB to PC
- Automatic software upgrades via Internet
- Field Programmable Dongle for
  - DSC8001 – Standard CMOS
  - DSC8002 – Standard CMOS
  - DSC8101 – Performance CMOS
  - DSC8102 – Performance LVPECL
  - DSC8103 – Performance LVDS
  - DSC8104 – Performance HCSL
  - DSC8121 - Performance CMOS
  - DSC8122 – Performance LVPECL
  - DSC8123 – Performance LVDS
  - DSC8124 – Performance HCSL
- Socket Adapter Cards Support:
  - 2.5 x 2.0 x 0.85 mm
  - 3.2 x 2.5 x 0.85 mm
  - 5.0 x 3.2 x 0.85 mm
  - 7.0 x 5.0 x 0.85 mm



## TimeFlash Specifications

|                                     |                                                            |
|-------------------------------------|------------------------------------------------------------|
| Programmer Power Supply             | Supplied thru USB Cable ( micro USB to USB A)              |
| Oscillator Operating Supply Voltage | 1.8 v -3.6 v                                               |
| Programming Time                    | 2 Seconds                                                  |
| Operating System Supported          | MS Windows (XP, Vista & Windows 7) 32 or 64 bit compatible |
| Programmer Size                     | 2 1/2" X 1 1/4" X 1/2"                                     |
| Programmer Weight                   | 0.2 lb                                                     |

## Ordering Information

For programming of devices, a TimeFlash programmer and an appropriate adapter card kit are required.

| Part Number             | Description                                                                |
|-------------------------|----------------------------------------------------------------------------|
| DSC-PROG-Timeflash      | Timeflash programmer, USB cable, tweezers and installation USB flash drive |
| DSC-PROG-Timeflash-2520 | DSC-PROG-Timeflash with 2.5x2.0mm socket adapter                           |
| DSC-PROG-Timeflash-3225 | DSC-PROG-Timeflash with 3.2x2.5mm socket adapter                           |
| DSC-PROG-Timeflash-5032 | DSC-PROG-Timeflash with 5.0x3.2mm socket adapter                           |
| DSC-PROG-Timeflash-7050 | DSC-PROG-Timeflash with 7.0x5.0mm socket adapter                           |
| DSC-PROG-Timeflash-Kit  | DSC-PROG-Timeflash with all 4 socket adapters                              |