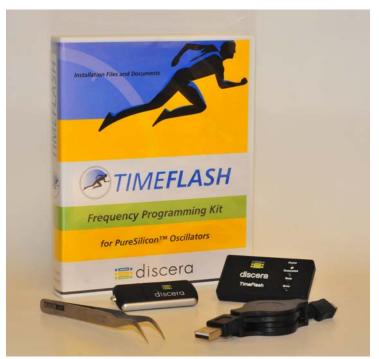


### **General Description**

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:
  - o 2.5 x 2.0 x 0.85 mm
  - o 3.2 x 2.5 x 0.85 mm
  - o 5.0 x 3.2 x 0.85 mm
  - o 7.0 x 5.0 x 0.85 mm



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## **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

### **Socket Adapter Kits**

Itama	Paradiation .
Item DSC-PROG-8001-2520	Description  Wit includes 2 5v2 0mm cocket adaptor 9 50 blank DSC9001DI2 oscillators at 25nmm/ 40C to ±95 C
	Kit includes 2.5x2.0mm socket adapter & <b>50</b> blank DSC8001DI2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8001-3225	Kit includes 3.2x2.5mm socket adapter & <b>50</b> blank DSC8001Cl2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8001-5032	Kit includes 5.0x3.2mm socket adapter & <b>50</b> blank DSC8001BI2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8001-7050	Kit includes 7.0x5.0mm socket adapter & <b>50</b> blank DSC8001Al2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8002-2520	Kit includes 2.5x2.0mm socket adapter & <b>50</b> blank DSC8002DI2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8002-3225	Kit includes 3.2x2.5mm socket adapter & <b>50</b> blank DSC8002Cl2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8002-5032	Kit includes 5.0x3.2mm socket adapter & <b>50</b> blank DSC8002BI2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8002-7050	Kit includes 7.0x5.0mm socket adapter & <b>50</b> blank DSC8002Al2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-81x1-2520	Kit includes 2.5x2.0mm socket adapter & 5 blank DSC81x1DI2 (Standby or Enable High CMOS at 25ppm/-40C to +85 C)
DSC-PROG-81x1-3225	Kit includes 3.2x2.5mm socket adapter & 5 blank DSC81x1Cl2 (Standby or Enable High CMOS at 25ppm/-40C to +85 C)
DSC-PROG-81x1-5032	Kit includes 5.0x3.2mm socket adapter & 5 blank DSC81x1BI2 (Standby or Enable High CMOS at 25ppm/-40C to +85 C)
DSC-PROG-81x1-7050	Kit includes 7.0x5.0mm socket adapter & 5 blank DSC81x1Al2 (Standby or Enable High CMOS at 25ppm/-40C to +85 C)
DSC-PROG-81x2-2520	Kit includes 2.5x2.0mm socket adapter & 5 blank DSC81x2DI2 (Standby or Enable High LVPECL at 25ppm/-40C to +85 C)
DSC-PROG-81x2-3225	Kit includes 3.2x2.5mm socket adapter & 5 blank DSC81x2Cl2 (Standby or Enable High LVPECL at 25ppm/-40C to +85 C)
DSC-PROG-81x2-5032	Kit includes 5.0x3.2mm socket adapter & 5 blank DSC81x2BI2 (Standby or Enable High LVPECL at 25ppm/-40C to +85 C)
DSC-PROG-81x2-7050	Kit includes 7.0x5.0mm socket adapter & 5 blank DSC81x2Al2 (Standby or Enable High LVPECL at 25ppm/-40C to +85 C)
DSC-PROG-81x3-2520	Kit includes 2.5x2.0mm socket adapter & 5 blank DSC81x3Dl2 (Standby or Enable High LVDS at 25ppm/-40C to +85 C)
DSC-PROG-81x3-3225	Kit includes 3.2x2.5mm socket adapter & 5 blank DSC81x3Cl2 (Standby or Enable High LVDS at 25ppm/-40C to +85 C)
DSC-PROG-81x3-5032	Kit includes 5.0x3.2mm socket adapter & 5 blank DSC81x3Bl2 (Standby or Enable High LVDS at 25ppm/-40C to +85 C)
DSC-PROG-81x3-7050	Kit includes 7.0x5.0mm socket adapter & 5 blank DSC81x3Al2 (Standby or Enable High LVDS at 25ppm/-40C to +85 C)

# **Ordering Information**

PART#	KIT CONTENTS
DSC-Prog-TimeFlash	Kit includes TimeFlash programmer, USB cable, tweezers, Quick Start guide & Installation USB Flash drive

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

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