

General Description

The Timeflash programmer allows users to rapidly program, thru 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 thru 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
- 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) or 64 bit compatible	32
Programmer Size	2 1/2" X 1 1/4" X 1/2"	
Programmer Weight	0.2 lb	

Socket Adapter Kits

PART #	Programming Part	KIT CONTENTS
DSC-PROG-8001-7050	DSC8001	Kit includes 4 pin 7.0x5.0mm socket adapter & 50 blank 7.0X5.0mm DSC8001 oscillators at 25ppm/-40° to +85° C
DSC-PROG-8001-5032	DSC8001	Kit includes 4 pin 5.0x3.2mm socket adapter & 50 blank 5.0X3.2mm DSC8001 oscillators at 25ppm/-40° to +85° C
DSC-PROG-8001-3225	DSC8001	Kit includes 4 pin 3.2x2.5mm socket adapter & 50 blank 3.2X2.5mm DSC8001 oscillators at 25ppm/-40° to +85° C
DSC-PROG-8001-2520	DSC8001	Kit includes 4 pin 2.5x2.0mm socket adapter & 50 blank 2.5X2.0mm DSC8001 oscillators at 25ppm/-40° to +85° C
DSC-PROG-8002-7050	DSC8002	Kit includes 4 pin 7.0x5.0mm socket adapter & 50 blank 7.0X5.0mm DSC8002 oscillators at 25ppm/-40° to +85° C
DSC-PROG-8002-5032	DSC8002	Kit includes 4 pin 5.0x3.2mm socket adapter & 50 blank 5.0X3.2mm DSC8002 oscillators at 25ppm/-40° to +85° C
DSC-PROG-8002-3225	DSC8002	Kit includes 4 pin 3.2x2.5mm socket adapter & 50 blank 3.2X2.5mm DSC8002 oscillators at 25ppm/-40° to +85° C
DSC-PROG-8002-2520	DSC8002	Kit includes 4 pin 2.5x2.0mm socket adapter & 50 blank 2.5X2.0mm DSC8002 oscillators at 25ppm/-40° to +85° C
DSC-PROG-8101-7050	DSC8101	Kit includes 6 pin 7.0x5.0mm socket adapter & 5 blank 7.0X5.0mm DSC8101 oscillators at 25ppm/-40° to +85° C
DSC-PROG-8101-5032	DSC8101	Kit includes 6 pin 5.0x3.2mm socket adapter & 5 blank 5.0X3.2mm DSC8101 oscillators at 25ppm/-40° to +85° C
DSC-PROG-8101-3225	DSC8101	Kit includes 6 pin 3.2x2.5mm socket adapter & 5 blank 3.2X2.5mm DSC8101 oscillators at 25ppm/-40° to +85° C
DSC-PROG-8102-7050	DSC8102	Kit includes 6 pin 7.0x5.0mm socket adapter & 5 blank 7.0X5.0mm DSC8102 LVPECL oscillators at 25ppm/-40° to +85° C
DSC-PROG-8102-5032	DSC8102	Kit includes 6 pin 5.0x3.2mm socket adapter & 5 blank 5.0X3.2mm DSC8102 LVPECL oscillators at 25ppm/-40° to +85° C
DSC-PROG-8102-3225	DSC8102	Kit includes 6 pin 3.2x2.5mm socket adapter & 5 blank 3.2X2.5mm DSC8102 LVPECL oscillators at 25ppm/-40° to +85° C
DSC-PROG-8103-7050	DSC8103	Kit includes 6 pin 7.0x5.0mm socket adapter & 5 blank 7.0X5.0mm DSC8103 LVDS oscillators at 25ppm/-40° to +85° C
DSC-PROG-8103-5032	DSC8103	Kit includes 6 pin 5.0x3.2mm socket adapter & 5 blank 5.0X3.2mm DSC8103 LVDS oscillators at 25ppm/-40° to +85° C
DSC-PROG-8103-3225	DSC8103	Kit includes 6 pin 3.2x2.5mm socket adapter & 5 blank 3.2X2.5mm DSC8103 LVDS oscillators at 25ppm/-40° to +85° C
DSC-PROG-8104-7050	DSC8104	Kit includes 6 pin 7.0x5.0mm socket adapter & 5 blank 7.0X5.0mm DSC8104 HCSL oscillators at 25ppm/-40° to +85° C
DSC-PROG-8104-5032	DSC8104	Kit includes 6 pin 5.0x3.2mm socket adapter & 5 blank 5.0X3.2mm DSC8104 HCSL oscillators at 25ppm/-40° to +85° C
DSC-PROG-8104-3225	DSC8104	Kit includes 6 pin 3.2x2.5mm socket adapter & 5 blank 3.2X2.5mm DSC8104 HCSL oscillators at 25ppm/-40° 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.