

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

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.

Socket Adapter Kits

Item	Description
DSC-PROG-8001-2520	Kit includes 2.5x2.0mm socket adapter & 50 blank DSC8001DI2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8001-3225	Kit includes 3.2x2.5mm socket adapter & 50 blank DSC8001CI2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8001-5032	Kit includes 5.0x3.2mm socket adapter & 50 blank DSC8001BI2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8001-7050	Kit includes 7.0x5.0mm socket adapter & 50 blank DSC8001AI2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8002-2520	Kit includes 2.5x2.0mm socket adapter & 50 blank DSC8002DI2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8002-3225	Kit includes 3.2x2.5mm socket adapter & 50 blank DSC8002CI2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8002-5032	Kit includes 5.0x3.2mm socket adapter & 50 blank DSC8002BI2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8002-7050	Kit includes 7.0x5.0mm socket adapter & 50 blank DSC8002AI2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8004-3225	Kit includes 3.2x2.5mm socket adapter & 5 blank DSC8004CI2 oscillators at 25ppm/-40C to +85 C
DSC-PROG-8101-3225	Kit includes 3.2x2.5mm socket adapter & 5 blank DSC8101CI2 (Standby CMOS at 25ppm/-40C to +85 C)
DSC-PROG-8101-5032	Kit includes 5.0x3.2mm socket adapter & 5 blank DSC8101BI2 (Standby CMOS at 25ppm/-40C to +85 C)
DSC-PROG-8101-7050	Kit includes 7.0x5.0mm socket adapter & 5 blank DSC8101AI2 (Standby CMOS at 25ppm/-40C to +85 C)
DSC-PROG-8102-3225	Kit includes 3.2x2.5mm socket adapter & 5 blank DSC8102CI2 (Standby LVPECL at 25ppm/-40C to +85 C)
DSC-PROG-8102-5032	Kit includes 5.0x3.2mm socket adapter & 5 blank DSC8102BI2 (Standby LVPECL at 25ppm/-40C to +85 C)
DSC-PROG-8102-7050	Kit includes 7.0x5.0mm socket adapter & 5 blank DSC8102AI2 (Standby LVPECL at 25ppm/-40C to +85 C)
DSC-PROG-8103-3225	Kit includes 3.2x2.5mm socket adapter & 5 blank DSC8103CI2 (Standby LVDS at 25ppm/-40C to +85 C)
DSC-PROG-8103-5032	Kit includes 5.0x3.2mm socket adapter & 5 blank DSC8103BI2 (Standby LVDS at 25ppm/-40C to +85 C)
DSC-PROG-8103-7050	Kit includes 7.0x5.0mm socket adapter & 5 blank DSC8103AI2 (Standby LVDS at 25ppm/-40C to +85 C)
DSC-PROG-8104-3225	Kit includes 3.2x2.5mm socket adapter & 5 blank DSC8104CI2 (Standby HCSL at 25ppm/-40C to +85 C)
DSC-PROG-8104-5032	Kit includes 5.0x3.2mm socket adapter & 5 blank DSC8104BI2 (Standby HCSL at 25ppm/-40C to +85 C)
DSC-PROG-8104-7050	Kit includes 7.0x5.0mm socket adapter & 5 blank DSC8104AI2 (Standby HCSL at 25ppm/-40C to +85 C)
DSC-PROG-8121-3225	Kit includes 3.2x2.5mm socket adapter & 5 blank DSC8121CI2 (Enable High CMOS at 25ppm/-40C to +85 C)
DSC-PROG-8121-5032	Kit includes 5.0x3.2mm socket adapter & 5 blank DSC8121BI2 (Enable High CMOS at 25ppm/-40C to +85 C)
DSC-PROG-8121-7050	Kit includes 7.0x5.0mm socket adapter & 5 blank DSC8121AI2 (Enable High CMOS at 25ppm/-40C to +85 C)
DSC-PROG-8122-3225	Kit includes 3.2x2.5mm socket adapter & 5 blank DSC8122CI2 (Enable High LVPECL at 25ppm/-40C to +85 C)
DSC-PROG-8122-5032	Kit includes 5.0x3.2mm socket adapter & 5 blank DSC8122BI2 (Enable High LVPECL at 25ppm/-40C to +85 C)
DSC-PROG-8122-7050	Kit includes 7.0x5.0mm socket adapter & 5 blank DSC8122AI2 (Enable High LVPECL at 25ppm/-40C to +85 C)
DSC-PROG-8123-3225	Kit includes 3.2x2.5mm socket adapter & 5 blank DSC8123CI2 (Enable High LVDS at 25ppm/-40C to +85 C)
DSC-PROG-8123-5032	Kit includes 5.0x3.2mm socket adapter & 5 blank DSC8123BI2 (Enable High LVDS at 25ppm/-40C to +85 C)
DSC-PROG-8123-7050	Kit includes 7.0x5.0mm socket adapter & 5 blank DSC8123AI2 (Enable High LVDS at 25ppm/-40C to +85 C)
DSC-PROG-8124-3225	Kit includes 3.2x2.5mm socket adapter & 5 blank DSC8124CI2 (Enable High HCSL at 25ppm/-40C to +85 C)
DSC-PROG-8124-5032	Kit includes 5.0x3.2mm socket adapter & 5 blank DSC8124BI2 (Enable High HCSL at 25ppm/-40C to +85 C)
DSC-PROG-8124-7050	Kit includes 7.0x5.0mm socket adapter & 5 blank DSC8124AI2 (Enable High HCSL at 25ppm/-40C to +85 C)
DSC-PROG-Socket-A	One 7.0x5.0mm universal socket adapter for 7.0x5.0mm oscillators
DSC-PROG-Socket-B	One 5.0x3.2mm universal socket adapter for 5.0x3.2mm oscillators
DSC-PROG-Socket-C	One 3.2x2.5mm universal socket adapter for 3.2x2.5mm oscillators
DSC-PROG-Socket-D	One 2.5x2.0mm universal socket adapter for 2.5x2.0mm oscillators

MICREL, Inc.
Phone: +1 (408) 944-0800

• **2180 Fortune Drive,** • **San Jose, California 95131** •
• **Fax: +1 (408) 474-1000** • **Email: hbwhelp@micrel.com** •

USA
www.micrel.com

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