DediProg EEPROM Software User Manual EE100

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Important Notice:

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I. Introduction

This user manual illustrates the usage of Dediprog EE100 Software. To get more information on our DediProg products and how to use them, please refer to our products specification, presentation in our web site: www.DediProg.com

II. Software Installation Guide

A.Operating System Requirement

Windows 7 Windows Server® 2008 Windows Vista® Windows XP Support both 32bit or 64bit OS

B.Installation Procedures

- 1. Insert the installation CD or download the installation software from www.dediprog.com
- 2. Execute FlashProg.msi file and click next until the installation is finished.
- 3. After step 2, plug in the USB cable to your computer and Dediprog programmer, A Hardware wizard will show up as in Fig.1



Follow the steps showed in the snap shots below to complete the installation



Found New Hardware Wizard	Browse For Folder
Please choose your search and installation options.	Select the folder that contains drivers for your hardware.
 Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this location in the search: C.YProgram Files/Dediprog/FlashProgrammer/WinUS Browse Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware. ketter ketter ketter ketter ketter 	Pesktop Image: My Documents Image: My Computer Image: My C



If the USB driver is installed properly, users can find "Dediprog EE100 Programmer driver" under device manager when the programmer is plugged into the PC.



III. Dediprog EE100 Software Engineering GUI

After the software installation, there will be three software icons on your desktop. Icon "DediWare Engineer" is for the engineering GUI, Icon "DediWare Production" is for the production GUI, and Icon "DediWareCMD" is for the command line interface.

A. Prepare the Environment

- 1. Connect the programmer to the PC through a USB cable.
- 2. Connect the ICP cable to your application board (EE100 pin out need to match with EEPROM pin out from your application) or connect the appropriate socket adaptor to the EE100 bottom board and insert an EEPROM in the socket.
- 3. Double click on the DediWare software icon on your desktop.

Select	Doad Load	Save	PROJ Load Prj	PROJ Save Prj	Edit C	onfig Access	PROJ Download Prj		Douleved by	ą
Blank	LE Read	Program	n Verify	Batch	FF Erase				Foreita og	DediProg
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B.Tool Bar Description

The tool bar provides all programming operation option for a single chip.

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Select

Select Chip: when a new EEPROM is placed, user has to click on this button to select the chip part number and perform operations. The selected chip type will be displayed on the right side of the screen.

nually Select Memory Type	
ilters: Manufacturer <all> Microchip Atmel ROHM Catalyst STM ST Seiko</all>	Memory List: CAT24C01 CAT24C04 CAT24C08 CAT24C16 CAT24C16 CAT24C16 CAT24C16 CAT24C16
	Manually salasted ship type
Select a Manuf	acturer

Load

Select image: load the file you intend to program. The loaded file size can not be larger the application EEPROM size.

ita Format:	Raw Binary	C Intel Hex	C Motorola S19	C ROM

Blank

Blank check: check the target EEPROM is Blank (the contents are all "FF")

Erase

Erase EEPROM: Erase the full content in an EEPROM. After "Erase" the target EEPROM shall be blank.

Program

Program: Program the selected image into the EEPROM.

Verify

Verify the checksum value of the selected image and the programmed contents

Batch

Batch operation: The programmer will perform a pre-configured set of operations such as (erase + program + verify) all together in one click. The configuration can be set by clicking on the "Config" button. The configuration will not be changed until it is re-configured.

Edit

When click on Edit, the programmer will by default display the selected file content. User can click on "read" to read and display the chip contents. See "Edit window description" for more details.

Config

This allows users to configure advanced settings. See "advanced settings window description" for more details

C. Edit Window Description

EEPROM content display:

In the edit window, file contents and chip contents can be displayed in the same time so that user can make the comparisons. By default the selected file contents are displayed once the user enters into the edit window.

The user can click on "Open" if another file contents are to be shown.

The user can click on "Read" in order to read the chip contents are display them on the edit window as well. Checksum of file contents and chip contents are displayed.

Source -	•\Dev	elon	nent\	test h	in file	Irand	lom\2	k hin												Ope	n	1					File 8	Buffe	r to F	ile			
	. pc.	ciopii	inciric (uest e	ALL THE	y ciric	ion ya	D. Din											Ē		_	=1					Chin				_		_
Chip: C	AT24	C16																		Rea	ia						Chip	вите	r to r	-lie			_
Checksum:	File	= 00	040	509	Men	nory	= 00	0040	609	Buff	ered	l File	= 00	040	609	Buffe	red Me	mor	y = (0004	0609	,					Sh	iow Ir	n	• F	lex (0 A	sc
									File												М	emor	y										
Address	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F	
0x000000	35	34	80	B4	01	CC	07	74	FF	55	1D	59	1C	DC	32	62	35	34	80	B4	01	CC	07	74	FF	55	1D	59	1C	DC	32	62	
0x000010	69	FD	FC	BD	6E	EE	6B	E8	C0	BF	EO	16	D6	DF	9A	D4	69	FD	FC	BD	6E	EE	6B	E8	CO	BF	EO	16	D6	DF	9A	D4	2
0x000020	18	E3	70	EC	39	83	C6	8A	C7	E5	BA	9D	00	1F	9E	80	18	E3	70	EC	39	83	C6	88	C7	E5	BA	9D	00	1F	9E	80	
0x000030	E8	F7	AB	DA	98	EC	F3	C3	D9	7B	98	28	F1	9B	3C	70	E8	F7	AB	DA	98	EC	F3	C3	D9	$7\mathrm{B}$	98	28	F1	9B	3C	70	
x000040	BD	8A	B8	5F	00	CB	11	3B	FB	70	A8	2E	3E	95	B0	EC	BD	88	B8	5F	00	CB	11	3B	FB	70	A8	2E	3E	95	B0	EC	
x000050	BD	2D	E5	95	26	01	7B	DD	72	F5	55	6A	BB	8D	78	7E	BD	2D	E5	95	26	01	7B	DD	72	F5	55	6A	BB	8D	78	7E	
x000060	4D	B1	BF	D5	FF	AD	DO	D1	C4	7C	4E	D4	7D	46	51	ED	4D	B1	\mathbf{BF}	D5	FF	AD	D0	D1	C4	7C	4E	D4	7D	46	51	ED	
x000070	11	27	13	B8	C0	32	EC	7F	B4	B6	80	Α5	D9	BF	37	45	11	27	13	B8	C0	32	EC	7F	B4	B6	80	Α5	D9	BF	37	45	
080000x0	EF	EO	ED	16	DE	30	EB	92	49	93	16	57	65	3B	67	CD	EF	EO	ED	16	DE	30	EB	92	49	93	16	57	65	3B	67	CD	
0x000090	0C	6E	9B	09	0D	89	2C	F1	C7	45	7F	A1	F6	39	5F	0E	0C	6E	9B	09	0D	89	2C	F1	C7	45	7F	A1	F6	39	5F	0E	
0A0000x0	CC	AO	AA	E9	44	5D	4A	C7	B3	3C	67	7E	9F	7B	DB	D2	CC	AO	AA	E9	44	5D	4A	C7	B3	3C	67	7E	9F	7B	DB	D2	
x0000B0	D5	89	E7	51	B6	0D	24	7B	D2	2A	BC	26	B8	01	D9	21	D5	89	E7	51	B6	0D	24	7B	D2	$2\mathbb{A}$	BC	26	B8	01	D9	21	
0x0000C0	0B	78	5E	18	D9	3A	D6	B7	29	00	A9	12	D3	0E	96	45	0B	78	5E	18	D9	3A	D6	B7	29	00	A9	12	D3	0E	96	45	
x0000D0	95	00	5D	57	62	C6	BC	65	FD	EE	9D	FC	C7	21	8E	C6	95	00	5D	57	62	C6	BC	65	FD	EE	9D	FC	C7	21	8E	C6	
0X0000E0	D6	F1	71	69	46	D2	75	AC	D4	65	45	DC	A8	FD	7F	6E	D6	F1	71	69	46	D2	75	AC	D4	65	45	DC	A8	FD	7F	6E	
x0000F0	73	5C	67	E5	BA	BD	DD	F6	72	18	8C	EA	CC	A1	65	45	73	5C	67	E5	BA	BD	DD	F6	72	18	8C	EA	CC	A1	65	45	
x000100	52	91	4C	A5	33	2A	10	EC	DB	F5	A1	A1	C7	4F	7D	94	52	91	4C	A5	33	2A	10	EC	DB	F5	A1	A1	C7	4F	7D	94	
x000110	98	23	6C	C1	66	F9	6D	77	56	30	FO	BA	6F	87	45	E5	98	23	6C	C1	66	F9	6D	77	56	30	FO	BA	6F	87	45	E5	
0x000120	A9	E3	55	94	47	4C	90	C0	67	38	26	2C	D8	0C	7A	00	A9	E3	55	94	47	4C	90	CO	67	38	26	2C	D8	0C	7A	00	
x000130	2B	E0	D4	B4	0D	82	55	30	D4	BE	31	32	57	DD	18	EF	2B	EO	D4	B4	OD	82	55	30	D4	BE	31	32	57	DD	18	EF	
- Jump To -			Next	Diffe	rence	-	š –	6-1																									

The difference between file contents and chip contents are highlighted with the "Red Fonts". User can click on the "next difference" button to search for the next different content between the chip and the file contents.

VI

View Contents in the Memory Chip

File: Z Chip: C	:\Dev	velopr IC 16	nent\	test b	in file	rano	dom\2	R.bir	1											Ē	Ope Rea	n d						File I Chip	Buffe Buffe	r to F er to F	ile ile		
Checksum:	File	= 01	FDB	286	Men	nory	= 00	040	609 File	Buff	ered	File	= 01	lfdb	286	Buffe	ered	Me	mor	y = (004	0609 Me	emory	,				sł	now I	n	€н	lex (D AS
Address	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F		+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F
0x000000	61	E4	F2	28	CA	7A	67	64	2E	80	BC	4F	06	4C	D4	0E		35	34	80	B4	01	CC	07	74	FF	55	1D	59	1C	DC	32	62
x000010	F5	8F	F1	AF	55	DD	E1	95	D6	2B	DE	88	7E	6C	22	49		69	FD	FC	BD	6E	EE	6B	E8	CO	BF	EO	16	D6	DF	9A	D4
x000020	18	DE	38	D2	B8	46	10	70	26	13	84	EO	53	C0	DC	80		18	E3	70	EC	39	83	C6	8A	C7	E5	BA	9D	00	1F	9E	80
	00	P7	4 A	09	82	0D	- 57	43	61	A4	13	EF	B1	FD	0F	14		E8	F7	AB	DA	98	EC	F3	C3	D9	7B	98	28	F1	9B	3C	70
x000030	92																																
0x000030 0x000040	92 2B	74	9F	2F	FF	12	18	A4	D6	D6	DA	8D	DA	7A	46	FA		BD	8A	B8			CB	11	3B	FB	70	A8	2E	3E	95	B0	EC

Chip buffer to file

This will save the chip contents into a user named binary file.

File buffer to file

File buffer can be modified in real time. This button will save the file buffer contents into a user named binary file.

D. Configuration Window Description

This feature allows users to configure advanced settings.

1. Batch Operation Option

Advanced Settings				×
Batch Batch Operations Program Configuration	Batch Operation Options: Blank Check Erase Whole Chip Program Chip Checksum Verify	Add >> << Remove	Operation Options Selected :	
			OK Cancel	Apply

Use "Add" and "Remove" buttons to add or remove the operations in a batch.

2. Program Configurations

- 1. program a whole file starting from address 0 of a chip
- 2. program at specific address of a chip

If the file is smaller than the target EEPROM, user can define how to fill the rest of the EEPROM.

By default FFh or 00h if selected in the interface.

Program Options: Program a whole file startin Fill Unused Space with(Hex	ıg from address 0 of a chip ¢):
O Program at specific address	of a chip
Starting Address(Hex):	0X000000
Length(Hex): 0X000000	

3. Engineering Mode

In the engineering setting, users are able to set the Vcc value and clock value.



a) VCC Option

EE100 supports 5V, 3.5V, and 1.8V Vcc. Default of 3.5V Vcc is applied after the software installation. User is able to change the Vcc configuration here and the Vcc setting will be changed and saved until next modification.



b) SPI Clock Setting

EE100 supports 100KHz, 300KHz, and 700KHz for I2C EEPROM. For SPI EEPROM, users have two additional selections of 1 MHz and 1.2 MHz. For I2C EEPROM, the default setting is 300 KHz. For SPI EEPROM, it is 700KHz. User is able to change the clock configuration, and it will be saved until next modification.

E.Supported Devices, Software Version, Firmware Version

User can find EE100 support list by clicking on "help" on the software menu. This support list is valid for the last software and firmware so user will have to check the current software and firmware version he is using and update it if necessary.

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IV. Dediprog EEPROM Software Production GUI

In order to run more than one EE100 in the same time reliably, USB hub with individual power supply is highly recommended.



Multi-Programmers Capability

A. Main GUI

In order to run production GUI, USB plug in of all the intended programmers is required prior to opening the software. It is not recommended to add (plug in) or reduce (unplug) any number of programmers when the software is already opened.

The production software does not provide auto chip detect feature and therefore "programmer search" and "chip select" are required prior to any other operations.

The production GUI manual will only illustrate the items not covered by the engineering GUI. Therefore function explanations such as Program, Erase, Blank check, etc will not be repeated here.

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1. Search and Select

When click on "search", the software will try to detect all the connected EE100 by default. Users have option to search other programmer models if the plugged-in programmers are not EE100.

The searched programmers will be listed along with site number. The site number is given by the Window OS randomly and therefore users can use the "blink" and "up" and "down" button to adjust the real sequence of the connected programmer. When click on "blink", the connected programmer will blink on its green LED once. Users can use this feature to locate the programmer associated with its site number. Dediprog will write a serial number in the hardware before shipping out and the serial number will be displayed in the following screen snapshot.

After the search step and the to-be-programmed chip is selected, the main GUI will have updated information on the Programmer SITE Status bar, the status window and the log window.

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DediWare Produ e View Help	ction 1.1.0.12	54 74	0		3 9		
Search Selec	rt File Bla	nk Erase Prog Ve	🕻 🦂 🧔 rify Batch Confi	PROJ g Load Prj			
Site #1	Site #2	Site #3	Site #4	Site #5	Site #6	Site #7	Site #8
OK	OK	Ę	P	P	P	P	£
• Type: EE100 F/W Ver: 1.11 Pass/Fail: 1/	Type: EE F/W Ver: 1. Pass/Fail:	• • • • • • • • • • • • • • • • • • •	o Type: F/W Ver: Pass/Fail:	o Type: F/W Ver: Pass/Fail:	Type: F/W Ver: Pass/Fail:	o Type: F/W Ver: Pass/Fail:	Type: F/W Ver: Pass/Fail:
Status Window			Statistics		Log Window		
Site Com	imand	Status	Success : 2		(i) 2011-Apr-15 18:30:	30: Start logging	
Site #1 Proc	aramming	OK	Failure: 0	Reset	(i) 2011-Apr-15 18:30:	30: Checking USB conn	nection
Site #2 Proc	gramming	OK	Total : 2		✓ 2011-Apr-15 18:30:	30: OK: EE100 is detec	ted.
					2011-Apr-15 18:30:	30: Hint: Select chip ty 30: OK: 2 programmer	(c) detected
			Count Down : D	isabled	✓ 2011 Apr 15 18:30:	44: OK: Type AT24C10)24B is applied
			Remains : 0	of 0	(i) 2011-Apr-15 18:30:	47: Loading C:\Users\c	lediprog\Desktop\128KB
			Delead	Count Down	2011-Apr-15 18:30:	47: C: Users \dediprog	Desktop\128KB.bin Load
-			Reload	Count Down	0 2011-Apr-15 18:30:	47: Operation complete	ed.
					(U) 2011-Apr-15 18:30:	47: 0.069 seconds elap	osed.
Project Info					() 2011-Apr-15 18:30:	49: Site 1 - EE100	
Memory Info		File Info	Batch Config set	ting	2011-Apr-15 18:30:	49: Site 2 - EE 100	1K
Turnet	10000000	Name: 128KB bin	batter config set	ung	✓ 2011-Apr-15 18:31:	00: P1-Programming C	ж.
Type: A	124C10248	Size 0v20000	Program Chip		(1) 2011-Apr-15 18:31:	00: Operation complete	ed.
Manufact.: A	tmei	Charlesum Oufe-Ob-	Checksum Ver	ify	0 2011-Apr-15 18:31:	00: 6.805 seconds elap	osed.
Size(KB): 1	28	CHECKSUM: OXTEBODA			0 2011-Apr-15 18:31:	00: Operation complete	ed.
Manu. ID:					U 2011-Apr-15 18:31:	00: 6.805 seconds elap	osed.
JEDEC ID:					•	m	
							•

2. Batch Config

By clicking on the "config" icon, users will have access to configure the batch setting.

Advanced Settings Batch Batch Operations	Batch Operation Options: Blank Check	Add >> << Remove	Operation Options Selected : Identify Chip (Recommanded) Erase Whole Chip Program Chip Checksum Verify	×
			OK Cancel App	y I

3. Single Site Programming

By click on the right mouse button after pointing to a specific Programmer Site number, users will have the access of programming options to the pointed programmer site.

, DediWare Pro ile View Hel	duction 1.1.0.1.	2	- 10		a 61
Search Se	🔮 🙀 elect File	Slank Erase	Prog V	🔮 🙏 Terify Batch C	onfig Load Prj
Site #1	Site	: #2	Site #3	Site #4	Site #5
Type: EE1 F/W Ver: 1.1 Pass/Fail:	00 Type: 1 F/W Ve Pass/F	Blink Progr Blank Chec Erase Who Program C Checksum Auto Batch	ammer (L) k (B) le Chip (E) hip (P) Verify (V)	Type: F/W Ver: Pass/Fail:	Type: F/W Ver: Pass/Fail:
Status Window		Firmware L	Jpgrade (F)	tatistics	
SiteCSite #1SSite #2S	Command Search Device Search Device	Status Ready Ready		Success : 0 Failure: 0 Total : 0	Reset
				Count Down : Remains : Re	Disabled 0 of 0 load Count Down

V. Dediprog Window DOS Command Line

A. Introduction

The window command line has been designed to control our programmer from another software. This feature will be convenient to synchronize the two software in development or control the chip programming in production line via the testing software (ICT test). To get more information about these methods please contact DediProg.

Window DOS command

www.dediprog.com

```
DWCmd
DWCmd -rxxx
Please keep space between the switches and parameters.
E.g. 'DWCmd --type stm32f103c8 -p bio.bin'>
Basic Switches(switches in this group are mutual exclusive):
                        show this help message
 -? [ --help ]
   -list
                        print supported chip list
                        Specify a type to override auto detection
 --type arg
                        - use --list arguement to look up supported type.
 -b [ --blank ]
                        blank check
 -e [ --erase ]
-r [ --read ] arg
                        erase entire chip
                        read chip contents and save to a bin/hex/s19 file
                        - use STDOUT for the console.
                        write chip with file
  -p [ --wf ] arg
   -wd arg
                        write chip with input data (partial write for EE100
                        only)
                        execute project
 -u [ --auto ] arg
 -d [ --dsap ] arg
                        download standalone project
 -c [ --cchu ] arg
                        change the caption of host GUI
  -s [ --sum ]
                        display chip content checksum
 -f [ --fsum ] arg
                        display the file checksum
                        - needs to work with a file
 --blink arg
                         - 0 : Blink green LED 3 times from USB1 to USBn
                         (Default)
                           note: the sequence is assigned by OS during USB
                        plug-in
                         - 1: Blink the programmer connected to USB1 3 times.
                        - n: Blink the programmer connected to USBn 3 times.
  --device arg
                        (work with all Basic Switchs)
                         - 1: activate only the programmer connected to USB1
                        - n: activate only the programmer connected to USBn
note: if "--device" is not used, the command will be
                        executed on all connected programmer.
  --fix-device arg
                        Fix programmer serial number with programmer sequence.
                         - instructions must be enclosed in double quotation
                        marks("")
                         Example:
                        dwcmd --fix-device "1 DP000001"
Optional Switches(specify the following switches to change default values):
  -i [ --silent ]
                              supress the display of real-time timer counting
                               - used when integrating with 3rd-party tools(e.g.
                               IDE>
 -v [ --verify ]
                              verify checksum file and chip
                               - works with --wf only
 -a [ --addr ] arg
                              starting address(e.g. 0x1000),
                               - works with --wf/wd/read/sum only
                               - defaults to 0, if omitted.
 -1 [ --length ] arg
                               length to read/write in bytes,
                               - works with --wf/read/sum only
                               - defaults to whole file if omitted
 -t [ --timeout ] arg <=300> Timeout value in seconds
   -vcc arg
                               specify vcc (for EE100 only)
                                   3, 5V
                                   1, 300KHz
```

B. How to Start

Dediprog window dos command line software is executed by the file "DWCMD.exe." There are three different ways to run the dos command line.

- 1. Double click on the "DWCmd" icon on your desktop and type in DWCmd and enter.
- 2. Change your dos directory to the same location where "DWCmd.exe" is located. C:\program files\dediprog\FlashProgrammer

 Type in the following command to auto direct the DWCmd command to the "DWCmd.exe" location.
 Set path=% path%;"c:\program files\dediprog\FlashProgrammer"

C. Basic Usages

DWCmd --type 93LC56B --wf bio.bin

D.Basic Switches

-? [help]	show this help message
list	print supported chip list
type arg	Specify a chip type
	- uselist argument to look up supported type.
-b [blank]	blank check
-e [erase]	erase entire chip
-r [read] arg	read chip contents and save to a bin/hex/s19 file
	- use STDOUT for the console.
-p [wf] arg	write chip with file
wd arg	write chip with input data
-s [sum]	display chip content checksum
-f [fsum] arg	display the file checksum
	- needs to work with a file
blink arg	
	- 0 : Blink green LED 3 times from USB1 to USBn
	(Default)
device arg	(work with all Basic Switchs)
	- 1: activate only the programmer connected to USB1
	- n: activate only the programmer connected to USBn
	note: if "device" is not used, the command will
	be executed on all connected programmer.
fix-device arg	Fix programmer serial number with programmer sequence.
	- instructions must be enclosed in double quotation marks("")
	Example:
	dwcmdfix-device "1 DP000001"

E. Optional Switches

(specify the following switches to change default values):

-i [silent]	supress the display of real-time timer counting
	- used when integrating with 3rd-party tools(e.g. IDE)
-v [verify]	verify checksum file and chip
	- works withwf only
-a [addr] arg	starting address(e.g. 0x1000),
	- works withwf/wd/read/sum only
	- defaults to 0, if omitted.
-l [length] arg	length to read/write in bytes,
	- works withwf/read/sum only
	- defaults to whole file if omitted

-t [timeout] arg	(=300) Timeout value in seconds
vcc arg	specify vcc
	3, 5V
	2, 3.5V (Default)
	1, 1.8V
clk arg	specify frequeny
	4, 1.2 MHz (SPI EEPROM Only)
	3, 1MHz (SPI EEPROM Only)
	2, 700KHz
	1, 300KHz
	0, 100KHz
	clk setting must follow withtype.
	clk setting is optional.
log	write operation result into file "%appdata%\dedip
	rog\log.txt"

F. Programmer order setting

EE100 Successively order setting

 $dwcmd \triangle$ --fix- $device \triangle$ "1 $\triangle dpxxxx$ "

 $dwcmd \triangle --fix-device \triangle "2 \triangle dpxxxx"$

(dpxxxx is the programmer serial number printed on the back side of the programmer)

Check the setting dwcmd△--blink△1 dwcmd△--blink△2

Multi programmers with ONE programming file set up method dwcmd \triangle --type \triangle cat24c16 \triangle -p \triangle d:\123.bin \triangle -v

```
Multi programmers with MULTI programming files set up method dwcmd\triangle--device\triangle 1 \triangle--type\trianglecat24c16\triangle-p\triangled:\123.bin\triangle-v dwcmd\triangle--device\triangle 2 \triangle--type\trianglecat24c16\triangle-p\triangled:\456.bin\triangle-v
```

A represent SPACE

VI. Revision History

Date	Version	Changes
2010/02/4	V 1.0	First released

For more information please contact us or your motherboard suppliers.

We also recommend motherboard makers to enter in contact with our technical team to create a dedicated document that will take into consideration all your motherboard updating constraints and references. This documentation will then be very helpful to simplify the Bios update and avoid any mistake in the field.

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