Dataman-S6 Compact USB Programmer MultiControl User's Manual

DATANAN

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Chapter 1 Summary

This MultiControl software allows for up to 8 Dataman-S6 programmers to be controlled by one piece of software on one PC. Project files (*.lpprj) are generated using the standard software, these are then loaded into the MultiControl software and assigned to the connected programmers. The MultiControl software will then carry out the actions specified in the project file on the connected programmers.

Chapter 2 Product Installation

Before installation of the MultiControl software make sure that you have already installed the standard version of the software and database, otherwise it will cause the installation to fail.



Chapter 3 Software Operation

There are some similarities between the MultiControl software and the standard control software. The MultiControl software can simultaneously support up to eight programming units.

3-1 Main Screen

ct Options				1000000
Date Time		Status	Clear Save	- Fromation
satus Site #5	□Site #6	□ Site #7	□ Site #8	
Pass:0	Pass:0	Pass:0	Pass:0	
Fail:0	Fail:0	Fail:0	Fail:0	/ Statistics
NONE	NONE	NONE	NONE	PASS: 0
Site #1	Site #2	□ Site #3	□ Site #4	TOTAL : 0 (area
				Action
	and the second se	Descul	Pass:0	Run Program
Pass:0	Pass:0	Pass.0		
Pass:0 Fail:0	Pass:0 Fail:0	Fail:0	Fail:0	Auto Re

3-1-1 File Menu

Dataman-S6 Compact USB	Program
Project Options	
Log	
Date Time	

Project allows you to load and select the project files (*.lpprj) generated using the standard software. Options allows you to view and modify the options for the MultiControl software.



3-1-2 Log Window

og	24256	4.0000000000000000000000000000000000000
Date Time	Status	Clear Save
2013 / 03 / 27 - 12:40:00] System Initia	lization Finish	

The log window records all actions and results performed by the system. It will show the date and time in front of each line. The [Clear] button clears the current log messages, [Save] button saves the log data out to a text file.

3-1-3 Information Pane

Г	Information
	Project Name: Project_1.lpprj Author: Dataman
	Description: Project_1
	Machine Name: Dataman-S6 Compa Project DateTime: 2013/03/18 - 16:14
	Software Version: 3.1.3.0
	DataBase Date: 20130315
	Driver Date: 20130311
	Menu Date: 20110629
	Manufacturer: AMD
	Parts Number: AM29F040B(DIP32)
	Source Path: IC Data Checksum: 0x03EC09ED
	Procedure: E+C+P+V
	۰
L_	

After loading a project file you can view information about the selected project file.

3-1-4 Statistics



Shows the results of the processed IC's, the result is the total from each site present. The [Reset] button clears all statistics to zero.

3-1-5 Site Status



This area displays the connection status of each attached programmer. Each site represents one programmer and its IC processing results. There is a check box at the upper left of each site window, if checked, the site is active and programming actions will be carried out on the IC.



The programmer is not detected on the USB.





The default state when the programmer initially connects.



IC programming in progress.



Programming result: Pass.



Programming result: Fail.



In Auto Run mode the window will prompt for you to insert a new IC into the socket or alert you that the IC is not detected.



In Auto Run mode the window will show that programming of the IC is complete. It will also prompt you to remove the IC.

3-1-6 Run Program



Until a project file (*.lpprj) is loaded into the MultiControl software, this option will be greyed out.

[Run Program] : Pressing this button will begin programming the IC(s) according to the project file settings.

[Auto Run] : With this option checked the [Run Program] button will enter into continuous programming mode.

[Stop All] : Will stop all operations on the connected sites.



3-1-7 Status Bar

Remove IC	NONE	NONE	NONE
C:\Project_1.lpprj			

This will show the path of the currently loaded project file.

3-2 Project List

This view displays the currently loaded project files (*.lpprj) and supports up to 20 projects. Newly added project files will appear at the top of the list and it will remove the last one when over 20 project files are loaded, the project reference is removed from the list but the actual project file is not deleted

oject	
dd List Delete Load	
Project Path	Information
C:Project_1.lpprj C:Project_2.lpprj C:Project_3.lpprj C:Project_5.lpprj C:Project_5.lpprj F <td>Project Name: Project_1.jppj Author: Dataman Description: Project_1 Machine Name: Dataman-S6 C Project DateTime: 2013/03/18 - Software Version: 3.1.3.0 BIOS Version: 1.6 DataBase Date: 2013/03/15 Driver Date: 2013</td>	Project Name: Project_1.jppj Author: Dataman Description: Project_1 Machine Name: Dataman-S6 C Project DateTime: 2013/03/18 - Software Version: 3.1.3.0 BIOS Version: 1.6 DataBase Date: 2013/03/15 Driver Date: 2013

[Add] : Add one or more project files to the project list.

[Delete] : Remove a project file from the list, does not remove the actual file.

[Load] : Loads the selected project file. After successfully loading a project the project file path is shown in the [Status Bar] and detailed information is shown in the [Information] column. Allows the selection of an IC by full or partial part name.

3-3 Options

3-3-1 Log Settings

Self Test Information BIOS Update	Message Box Clearing Selection		
	Auto Clear	Auto Clear and Save	
uto Run	Message Limit = 10000 lines		
	0		
	10000		50000
	10000		50000
	Log File Location		
	C:\DATAMA~1\History\MLOG		Browse
	Display Mode		

[Message Box Clearing Selection] : Here you can set the number of lines used for messages (10,000-50,000 lines). When the number of messages reaches the set limit you can choose whether to "Auto Clear and Save" or just "Auto Clear" and continue.

[Auto Clear] : Clear the log when it reaches the set limit.

[Auto Clear and Save] : Saves the log and then clears it when it reaches the set limit.

[Message Limit] : Used to set the value for the "Clear" or "Save and clear" options when the log reaches a set length.

[Log File Location] : When you enable the automatic save function it will save the log file to the default location "History \ MLOG" under the main program folder.

[Display Mode] : Here you can set the level of information included in the log file. [None] does not include any information. [Essential] includes RUN ALL, RUN ALL Time, RUN ALL Pass, Fail status. [All] includes all information.



3-3-2 Self Test

Options			×
Log Settings Self Test Information BIOS Update Auto Run	Site #1 Site #2 Site #3 Site #4 Site #5 Site #6 Site #7 Site #8	Flash LED	Execute
Information BIOS Update Auto Run	 Site #3 Site #4 Site #5 Site #6 Site #7 Site #8 	Flash LED	Execute

The self-test option allows you to check individual sites and run a self-test or to simply flash the LED on the Dataman-S6 for identification purposes. The result of the self-test can be checked from the "Display" area or the log window on the main screen.



3-3-3 Information

Log Settings Self Test Information BIOS Update Auto Run	Site #1 Site #2 Site #3 Site #4 Site #5 Site #6 Site #7 Site #8	Display BIOS Number : BIOS Version : Date Time ID : Series Number :	Execute
---	---	---	---------

The information window can display the selected site's BIOS version and serial number.



3-3-4 BIOS Update

Options		×
Log Settings Self Test Information BIOS Update Auto Run	Site #1 Site #2 Site #3 Site #4 Site #5 Site #6 Site #7 Site #8	Display Update Programmers Firmware to Version : 1.6 Execute

The BIOS Update section allows you to update the BIOS in the selected site to the latest version contained in the database. The [Display] area shows the current BIOS version which came with the DataBase that was last installed. The Execute button will update the BIOS in the selected programmer to this version.

When updating the BIOS the LED will flash for several seconds. After completing the update the programmer will reboot automatically. Do not unplug the programmer during the update process.



3-3-5 Auto Run

Options				X
Log Settings Self Test Information BIOS Update Auto Run	Interval Time = 50	0ms 5000ms	Ignore Insertion Detection	

[Interval Time] : Set the time interval for the Auto Run checking process.

[Ignore Insertion Detection] : Check this option to ignore the Insertion Detection result for IC processing.

Chapter 4 Operation Example

1. Generate a project file using the standard software.

Select / Project	Device Select Project	
	Create Project Setting	â
ata/Option	Author	
Load	Dataman	1
Ca Edit	Password Setting (Max 16 Char)	
(7) Read	Password :	
Read		
Confirm	Confirm Password	
Option	Community I and	
Save		
	P Normai	
rocedure	Description	121
(4 =	Project_6	Ê.
- C Erase	Inmer	=
BlankCheck		
Program		-
Q Verify		
B Protect	OK	
Auto Dura		
Auto Kun	Greate Add Delete Cance	beol

After generating the project file, close the standard software

***** The standard software cannot be run at the same time as the MultiControl software. Please close one before launching the other.

2. Open the MultiControl software and load the project file.

				Information
Date Time		Status	Clear Save	Project Name: Project 1 Ippri
ect d Liet Delete Loed Project Path C:\Project_1.lpprj C:\Project_3.lpprj C:\Project_4.lpprj C:\Project_5.lpprj		INFORMATION State		Information Project Name: Project_1.lpprj Author: Dataman Description: Project_1 Machine Name: Dataman-S&C Project DateTime: 2013/03/18 Software Version: 3.1.3.0 BIOS Version: 1.6 DataBase Date: 2013/03/15 Driver Date: 201
NONE	NONE	NONE	NONE	Cton All

The loaded project file cannot be modified in the MultiControl software. Any changes must be made in the standard control software.

***** The standard control software and the MultiControl software share the same project list.

- 3. Fine-tuning. To enable the Auto Run feature in the MultiControl software please go to the menu [Option] → [Auto Run].
- 4. Choose which Site to use for programming.

Site #1	Site #2	🗆 Site #3	□ Site #4
PASS			
Pass:2 Fail:1	Pass:0 Fail:0	Pass:0 Fail:0	Pass:0 Fail:0
Remove IC	READY	NONE	NONE

5. Start programming.

Run Program
Stop All

Clicking on the [Run Program] button will begin the programming process with the settings as specified in the project file (*.lpprg). The [Stop All] button will exit from the Auto Run mode once all current operations with the IC have completed.

6. Programming results. You can view the programming status and results for each programming site in the [Site Status] area, or check the overall PASS / FAIL results in the [Statistics] area on the main window.

Chapter 5 Glossary of Terms

DIP:	Dual Inline Package
ZIF:	Zero Insertion Force socket
LED:	Light Emitting Diode
IC:	Integrated Circuit
USB:	Universal Serial Bus
OTP:	One Time Programmable
Buffer:	Part of PC memory or disk used for temporary data storage
Intel Hex:	Intel HEX is a file format for conveying binary information for applications like programming microcontrollers, EPROMs, and other kinds of chips
Binary:	A binary file is a computer file that is not a text file; it may contain any type of data, encoded in binary form for computer storage and processing purposes
Project File	A project file is a file which contains device configuration, buffer data and user interface options