HID Product User Manual

FlexMatrix Programmer

Sprintek Corporation

1. FlexMatrix Command Line Instruction

1.1. Overview

The FlexMtrix command line programmer CMLProgrammer can enable a production automation process. You may call it from command line from BAT file or from your application.

1.2. Execute a Command

Command Line Format:

FlexMatrix CMLProgrammer.exe /cmd [parameter]

Where cmd can be any command listed in Command List section.

Examples: Program FormatABTpl-SK5126.bin to chip >"FlexMatrix Programmer" /P FormatABTpl-SK5126.bin

The result of each execution is stored in a text file "Result_Report_File.txt". At the same time, the execution result will be appended to the log file "Results Log File.txt".

In the result file, the return values are listed line by line. Each line follows the format of "ValueName: Value". The key value is "ReturnValue". When the execution succeeds, the ReturnValue is 0; otherwise it's a negative value.

1.3. Command List

1.1.1 Command "P" or "p" - Program FlexMatrix Bin File to Chip

Format: FlexMatrix CMLProgrammer.exe /P [FlexMatrix Bin FileName] This command programs the specified FlexMatrix bin file to the attached USB chip, and verifies the execution result.

1.1.2 Command "V" or "v" - Verify FlexMatrix Bin File with the Data in the Chip

Format: FlexMatrix CMLProgrammer.exe /V [FlexMatrix Bin FileName]
This command verifies the specified FlexMatrix bin file with the data in the attached USB chip.

1.1.3 Command "R" or "r" - Read from Chip to a Bin File

Format: FlexMatrix CMLProgrammer.exe /R [SaveTo FileName] This command reads the data from the attached UBB chip to the specified file.

1.1.4 Command "L" or "I" - Get Checksum of FlexMatrix Bin File by Loading

Format: FlexMatrix CMLProgrammer.exe /L [FlexMatrix Bin FileName]
This command load the specified FlexMatrix bin file into memory and calculates the checksum.

2. Appendices

Appendix A – CML Programmer ReturnValue List

ReturnValue	Description
0	Successful

-1001	Device is not found
-1002	ProgramData block size is not matched
-1003	VerifyData block size is not matched
-1004	File doesn't exist
-1005	File name is missing
-1006	Save to file failed

Appendix B – CML Programmer Result File and Log File Example

The Result_Report_File.txt will be the content between two separation lines.

CMLProgrammerVersion: 1.32.1 DateTime: 8/21/2018 5:14:52 PM Operation: Program and Verify. FileName: FormatABTpl-SK5126.bin

Device is found. PartNo: 5126 Version: 1.13 Revision: 1 Write Completed. Read Completed.

Verification --- PASSED (1)
ReturnValue: 0 (Successful)
LoadedBufferChecksum: 0x1DFF0

LoadedBufferSize: 2560 VerifyBufferSize: 2560

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CMLProgrammerVersion: 1.32.1 DateTime: 8/21/2018 5:15:14 PM

Operation: Verify.

FileName: SK5126_Test.bin

Read Completed. Device is found.

ReturnValue: -1003 (VerifyData contents are not matched)

LoadedBufferChecksum = 0x1E02C vs TargetBufferChecksum = 0x1DFF0

CMLProgrammerVersion: 1.32.1 DateTime: 8/21/2018 5:15:30 PM

Operation: Verify.

FileName: FormatABTpl-SK5126.bin

Read Completed.

ReturnValue: 0 (Successful) LoadedBufferChecksum: 0x1DFF0

LoadedBufferSize: 2560 VerifyBufferSize: 2560

CMLProgrammerVersion: 1.32.1 DateTime: 8/21/2018 5:18:39 PM

Operation: Verify

FileName: FormatABTpl-SK5126232.bin

There no such file name!

ReturnValue: -1004 (File doesn't exist)

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CMLProgrammerVersion: 1.32.1 DateTime: 8/21/2018 5:19:22 PM Operation: Verify

ReturnValue: -1005 (File name is missing)

CMLProgrammerVersion: 1.32.1 DateTime: 8/21/2018 5:19:48 PM

Operation: Verify

FileName: FormatABTpl-SK5126.bin ReturnValue: -1001 (Device is not found) LoadedBufferChecksum: 0x1DFF0