

GigaDevice GD-Link Console User Manual

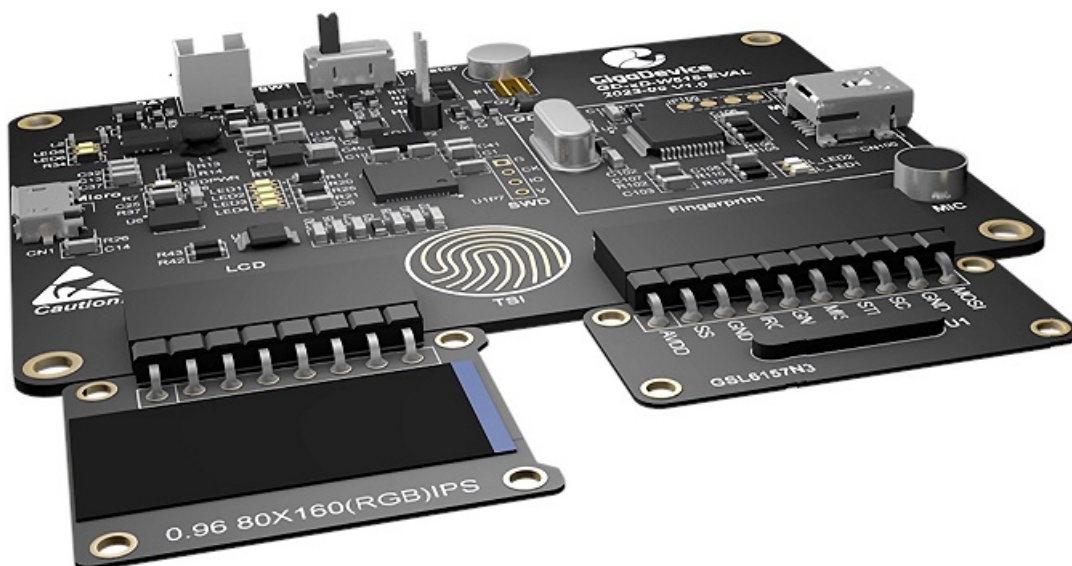
[Home](#) » [GigaDevice](#) » GigaDevice GD-Link Console User Manual 

Contents

- [1 GigaDevice GD-Link Console](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 1. Introduction](#)
- [5 Instructions](#)
- [6 Documents / Resources](#)



GigaDevice GD-Link Console



Product Information

The GigaDevice GD-Link Console is an application used to operate the flash or config GigaDevice MCUs. It requires a USB cable and GD-Link adaptor for operation. The GD-Link CLI tool allows users to interact with MCUs at high speed.

Function Description

The GD-Link CLI tool enables users to download application programs to the internal flash memory or secure chip of GigaDevice MCUs.

Operating Environment

Software Requirements: Chinese or English Windows XP, Windows 7, and advanced operation systems.

Hardware Requirements: GD-Link adapter (refer to the GD-Link Adapter User Manual).

Package Composition

All files listed in Chart 1 are required.

Product Usage Instructions

Command Set

The available commands are:

- **?**: Show the help
- **mem**: Perform memory operations (mem8, mem16, mem32)
- **w1, w2, w4**: Write data to memory
- **erase**: Erase memory
- **r, g, h**: Read memory
- **step**: Execute program step by step
- **loadbin**: Load a binary file
- **savebin**: Save data to a binary file
- **SetPC, SetRDP, ReadAP, WriteAP, ReadDP, WriteDP**: Perform specific operations
- **si, sd, q**: Additional commands

Other Usage

The GD-Link CLI tool can also be used with bat scripts. Refer to Chart 2 for an example of a bat file content and Chart 3 for an example of a test.gdlink file content.

For more detailed information and instructions, please refer to the complete GigaDevice GD-Link Console User Manual.

1. Introduction

This user manual describes an application used to operate the flash or config GigaDevice MCUs with available USB cable and GD Link adaptor. GD Link CLI is a tool for the user to use MCUs with high speed.

Function description

With GD Link CLI , user can download the application program to the internal f lash memory or secure chip and so on

Operating environment

Software Requirements Chinese or English Windows XP Windows 7 and advanced operation systems.
Hardware Requirements: GD Link adapter , referring to the GD Link Adapter User Manual .

Package composition

All files listed in Chart 1 are required.

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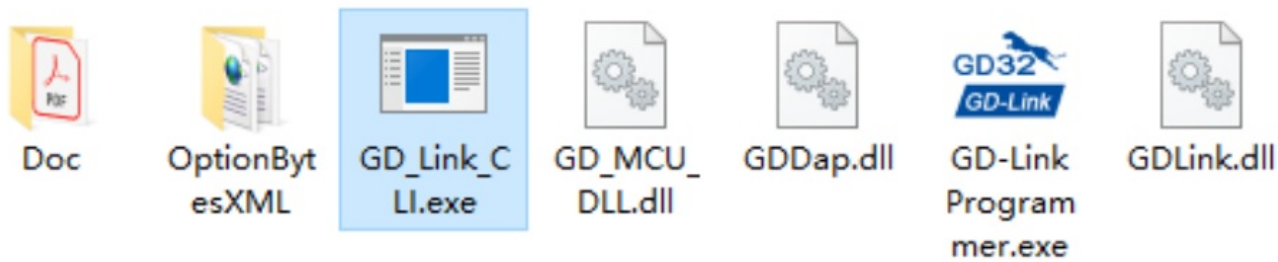


Chart 1

Instructions

Command set

The command set is as follows:

Command	Remarks
?	Show the help

mem	Read memory. Syntax: mem [<Zone> :]<Addr>, <NumBytes> (hex)
mem8	Read 8-bit items. Syntax: mem8 [<Zone> :]<Addr>, <NumBytes> (hex)
mem16	Read 16-bit items. Syntax: mem16 [<Zone> :]<Addr>, <NumItems> (hex)
mem32	Read 32-bit items. Syntax: mem32 [<Zone> :]<Addr>, <NumItems> (hex)
w1	Write 8-bit items. Syntax: w1 [<Zone> :]<Addr>, <Data> (hex)
w2	Write 16-bit items. Syntax: w2 [<Zone> :]<Addr>, <Data> (hex)
w4	Write 32-bit items. Syntax: w4 [<Zone> :]<Addr>, <Data> (hex)
erase	Erase internal flash of selected device. Syntax: Erase
r	Reset target
g	go
h	halt
step	step
loadbin	Load *.bin file into target memory. Syntax: loadbin <filename>, <Addr>
savebin	Saves target memory into binary file. Syntax: savebin <filename>, <Addr>, <NumBytes>
SetPC	Set the PC to specified value. Syntax: SetPC <Addr>
SetRDP	Set the RDP(Read Protect) to specified level. Syntax: SetRDP <level>
ReadAP	Read a CoreSight AP register. Syntax: ReadAP <Addr>
WriteAP	Write a CoreSight AP register. Syntax: WriteAP <Addr>, <Data> (hex)
ReadDP	Reads a CoreSight DP register. Syntax: ReadDP <Addr>
WriteDP	Write a CoreSight DP register. Syntax: WriteDP <Addr>, <Data> (hex)
si	Change target interface. Syntax: si <interface>, where 0=JTAG and 1=SWD
sd	Set up the device Part No. manually. Syntax: sd <Part No.>
q	Quit

Other usage

GD Link CLI can also be used by the bat script, like in chart 2.


```
GD_Link_CLI.exe -commandfile test.gdlink  
pause
```

Chart 2. The content of bat file

```
r  
sleep 30  
h  
sleep 30  
mem 8000000 10
```

Chart 3. The content of test.gdlink file

Documents / Resources

	GigaDevice GD-Link Console [pdf] User Manual GD-Link Console, Console
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