

GigaDevice MCU Team	Version	5 Pages
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	Name : GigaDevice GD-Link Console User Manual	

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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.

1.1 Function description

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

1.2 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**.

1.3 Package composition

All files listed in Chart 1 are required.

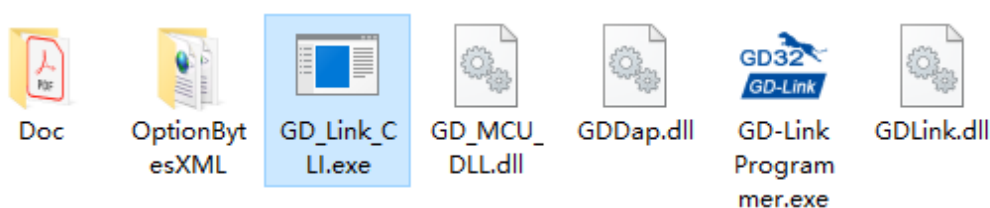


Chart 1

2. Instructions

2.1 Command set

The command set is as follows:

Command	Remarks
?	Show the help

Connect	Connect the target MCU.
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
load	Load *.bin file into target memory. Syntax: load <filename>, <Addr> Load *.hex file into target memory. Syntax: load <filename>
savebin	Saves target memory into binary file. Syntax: savebin <filename>, <Addr>, <NumBytes>
setOPT	Load *.bin file into option bytes. Syntax: setopt <filename>
readOPT	Saves option bytes into binary file. Syntax: readopt <filename>, <NumBytes>
writeOTP	Load *.bin file into OTP block. Syntax: writeotp <filename>, <Addr>
readOTP	Saves OTP block into binary file. Syntax: readotp <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.>
c	Change the USB Device. Syntax: c <SN or Device Index>
q	Quit

2.2 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

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

Chart 3. The content of test.gdlink file