

13/06/2024 Driver v. 1.02 **Diego Piccinin**

Interfacing FlashRunner 2.0 with Alioth

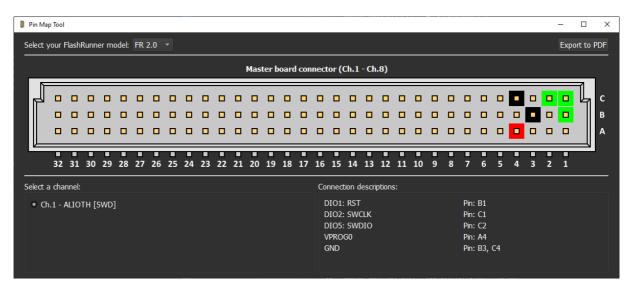




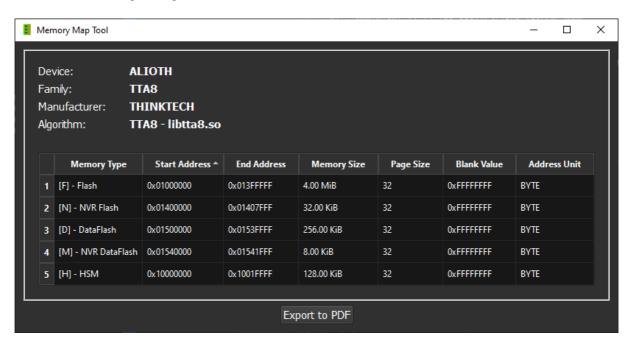
ALIOTH Protocols and PIN maps

#TCSETPAR CMODE <SWD>

SWD PIN MAP



ALIOTH memory map





ALIOTH Driver Commands

ALIOTH Standard Commands

Here you can find the complete list of all available commands for ALIOTH driver.

Memory type: F → FLASH D → DATAFLASH N → FLASH NVR M → DATAFLASH NVR H → HSM FLASH

#TPCMD CONNECT

#TPCMD CONNECT

This function performs the entry and is the first command to be executed when starting the communication with the device.

#TPCMD MASSERASE

```
#TPCMD MASSERASE <F|D|H>
#TPCMD MASSERASE <F|D|H> <start address> <size>
```

- F: Masserase command for Flash memory of target device. It includes Blankcheck operation.
- D: Masserase command for DataFlash memory of target device.
- H: Masserase command for HSM Flash memory.

Enter the Start Address and Size in hexadecimal format.

#TPCMD SECTOR ERASE

```
#TPCMD SECTOR_ERASE <F|D|H>
#TPCMD SECTOR ERASE <F|D|H> <start address> <size>
```

This function performs a page/sector erase of Flash memory, DataFlash or HSM Flash memory. Enter the Start Address and Size in hexadecimal format.

#TPCMD BLANKCHECK

```
#TPCMD BLANKCHECK <D|H>
```

Blankcheck is available for DataFlash or HSM Flash memory. Verify if all memory is erased.

```
#TPCMD BLANKCHECK <D|H> <start address> <size>
```

Blankcheck is available for DataFlash or HSM Flash memory.

Verify if selected part of memory is erased.

Enter the Start Address and Size in hexadecimal format.

#TPCMD PROGRAM

```
#TPCMD PROGRAM <F|D|N|M|H>
```

Program is available for all memories.

Programs all memory of the selected type based on the data in the FRB file.

#TPCMD VERIFY

```
#TPCMD VERIFY <F|D|N|M|H> <R>
```

R: Readout Mode.

Verify Readout is available for Flash, DataFlash, Flash NVR (OTP), DataFlash NVR (OTP) or HSM Flash memory.

Verify all memory of the selected type based on the data in the FRB file.

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#TPCMD VERIFY <F|D|N|M> <S>

S: Checksum 32 Bit Mode.

Verify Checksum is available for Flash, DataFlash, Flash NVR (OTP) and DataFlash NVR (OTP) memory. Verify all memory of the selected type based on the data in the FRB file.

#TPCMD READ

#TPCMD READ <F|D|N|M|H>

Read is available for all memories.

Read all memory of selected type.

The result of the read command will be visible into the Terminal.

#TPCMD READ <F|D|N|M|H> <start address> <size>

Read is available for all memories.

Read selected part of memory of the selected type.

The result of the read command will be visible into the Terminal.

#TPCMD DUMP

#TPCMD DUMP <F|D|N|M|H>

Dump is available for all memories.

Dump all memory of selected type.

The result of the dump command will be stored in the FlashRunner 2.0 internal memory.

#TPCMD DUMP <F|D|N|M|H> <start address> <size>

Dump is available for all memories.

Dump selected part of memory of the selected type.

The result of the dump command will be stored in the FlashRunner 2.0 internal memory.

#TPCMD DISCONNECT

#TPCMD DISCONNECT

Disconnect function. Power off and exit.



ALIOTH Driver Changelog

Info about driver version 1.02 - 18/06/2024 Internal changes.

Info about driver version 1.01 - 13/06/2024 Supported HSM Flash memory Commands for ALIOTH.

Info about driver version 1.00 - 15/04/2024
Supported Flash, DataFlash, Flash NVR (OTP) and DataFlash NVR (OTP) memory Commands for ALIOTH.