

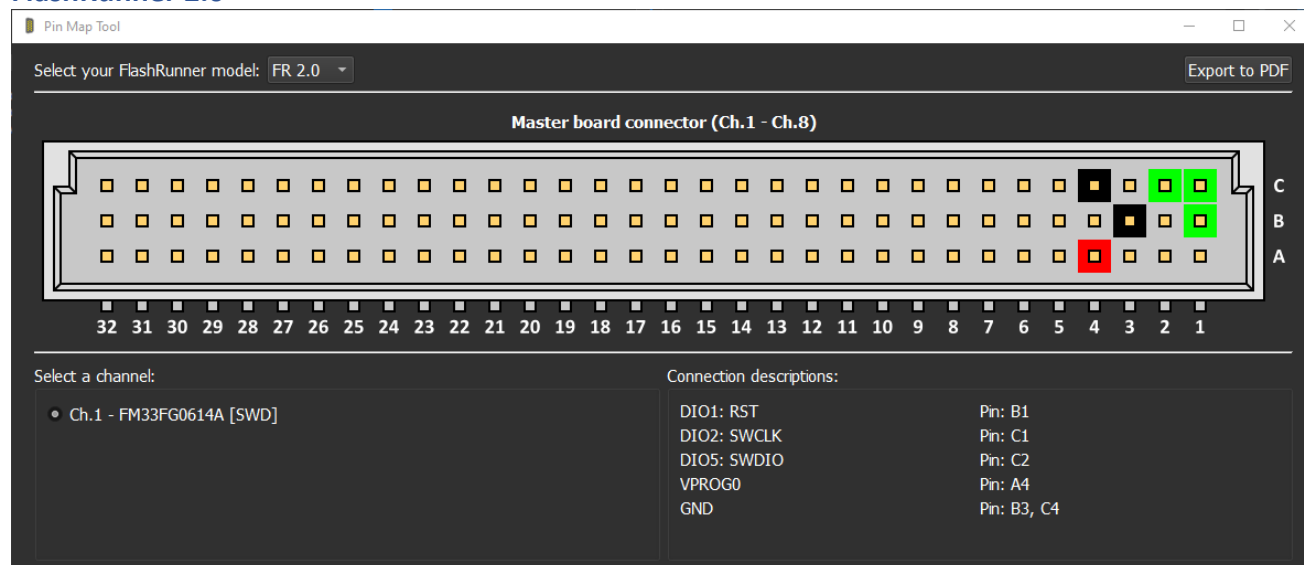
## Interfacing FlashRunner 2.0 with STMicroelectronics Fudan FM33FG

### Supported protocols

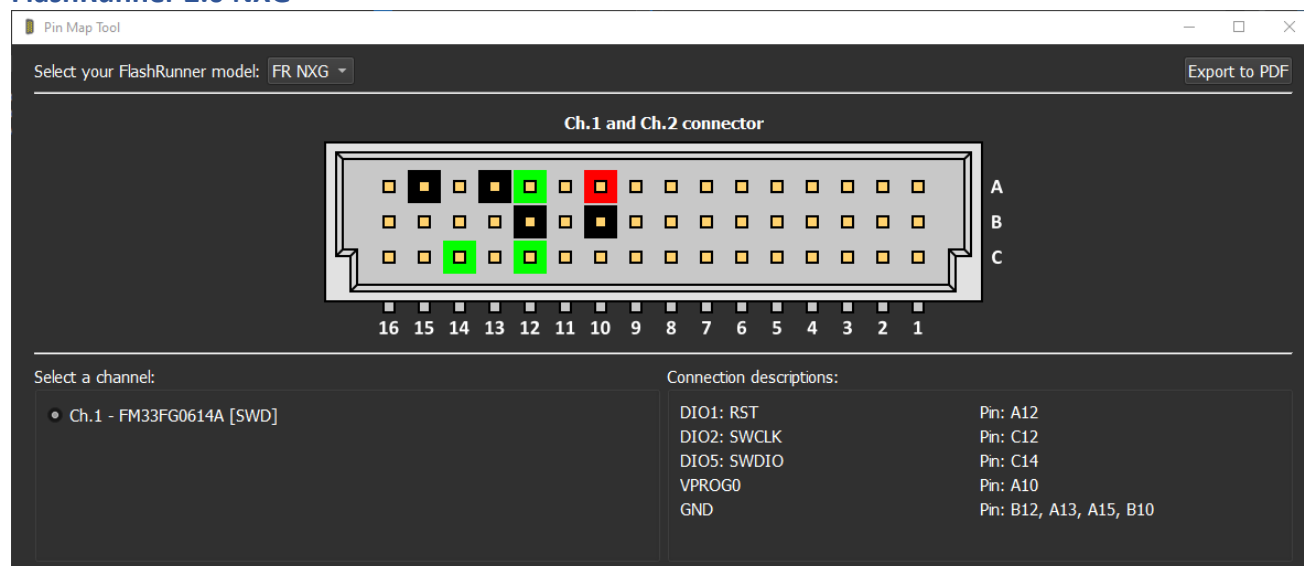
Fudan FM33FG flashing algorithm supports SWD protocol.

#TCSETPAR CMODE <SWD>

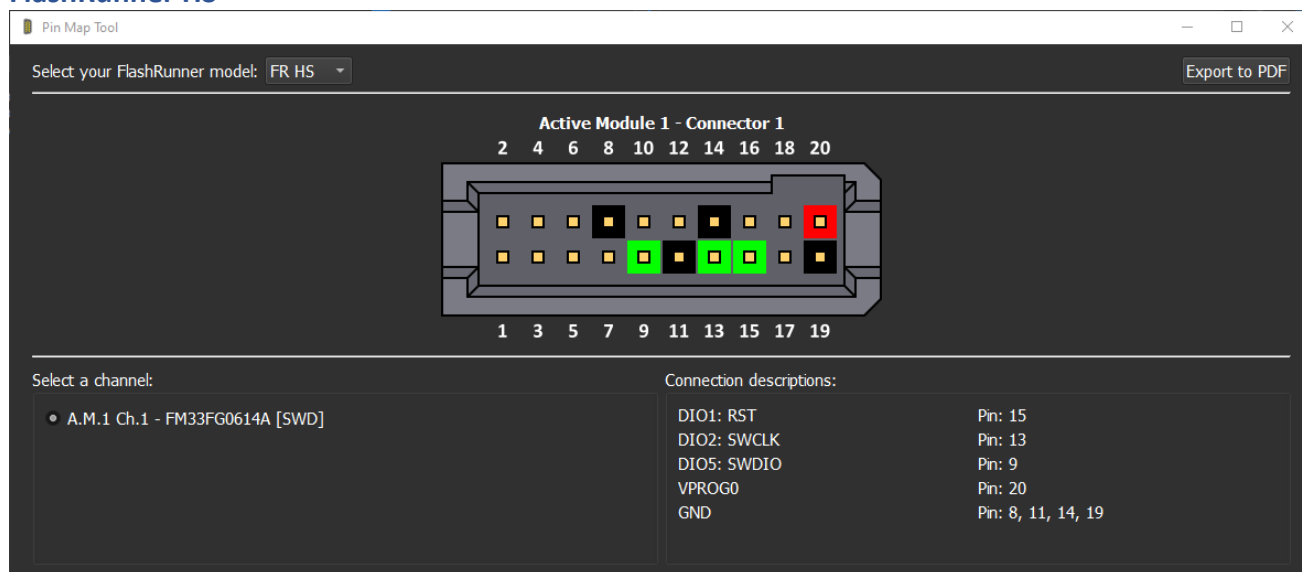
### FlashRunner 2.0



### FlashRunner 2.0 NXG



## FlashRunner HS



## Standard Commands

### CONNECT

This command is used to connect to the device. It prints out information on the status of the debug interface. It warns if some flash memory areas are locked.

### MASSERASE <memory\_type>

This command is used to erase the specified memory. If used for Flash can remove lock configuration bytes enabled.

### SECTOR\_ERASE <memory\_type> <start\_address> <size>

This command is used to erase a portion of the specified memory.

### BLANKCHECK <memory\_type> [<start\_address> <size>]

This command is used to check if the specified memory or a portion of it is blank. Start address and size are optional parameters.

### PROGRAM <memory\_type>

This command is used to flash the specified memory with a customer's firmware which fits into this memory.

### VERIFY <memory\_type> <verify\_method>

This command is used to compare the content of the memory with a customer's firmware.

R – Readout method: compares the content bit by bit.

S – Checksum method: compares the checksum of the source file with the checksum of the memory content.

### READ <memory\_type> <start\_address> <size>

This command is used to read the specified memory or a portion of it and print it out in the GUI terminal.

### DUMP <memory\_type> <start\_address> <size>

This command is used to read the specified memory or a portion of it and save it into a binary file stored inside the programming system SD-CARD.

### DISCONNECT

This command is used to disconnect from the device.

## Memories

1. [F] – Flash
2. [D] – DataFlash