

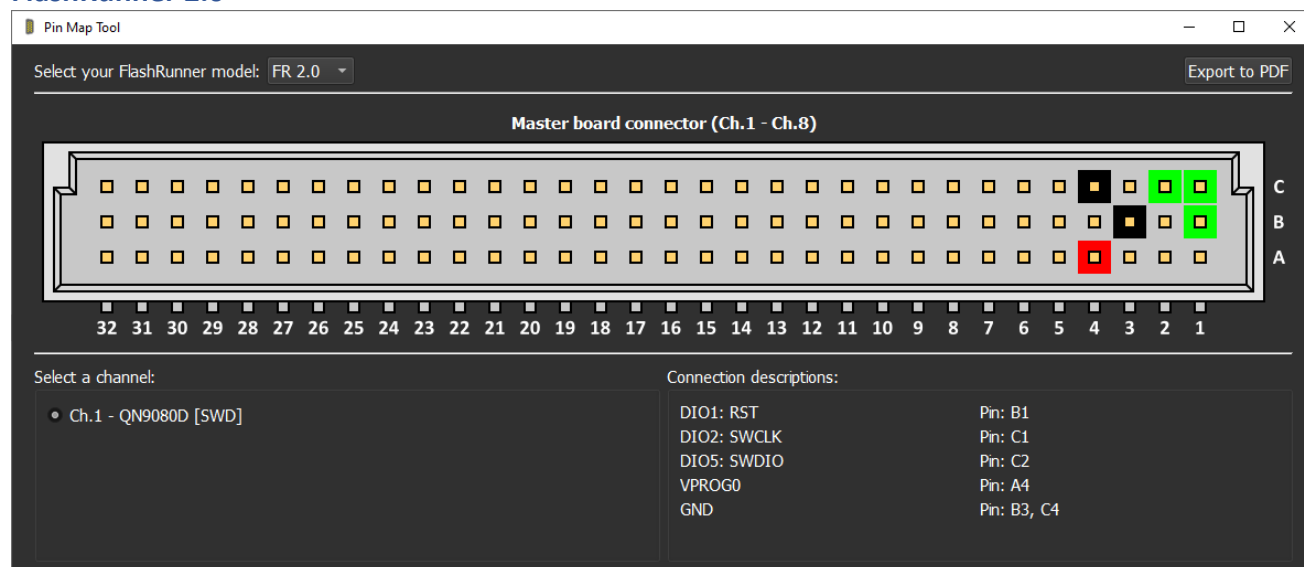
Interfacing FlashRunner 2.0 with NXP QN908x devices

Supported protocols

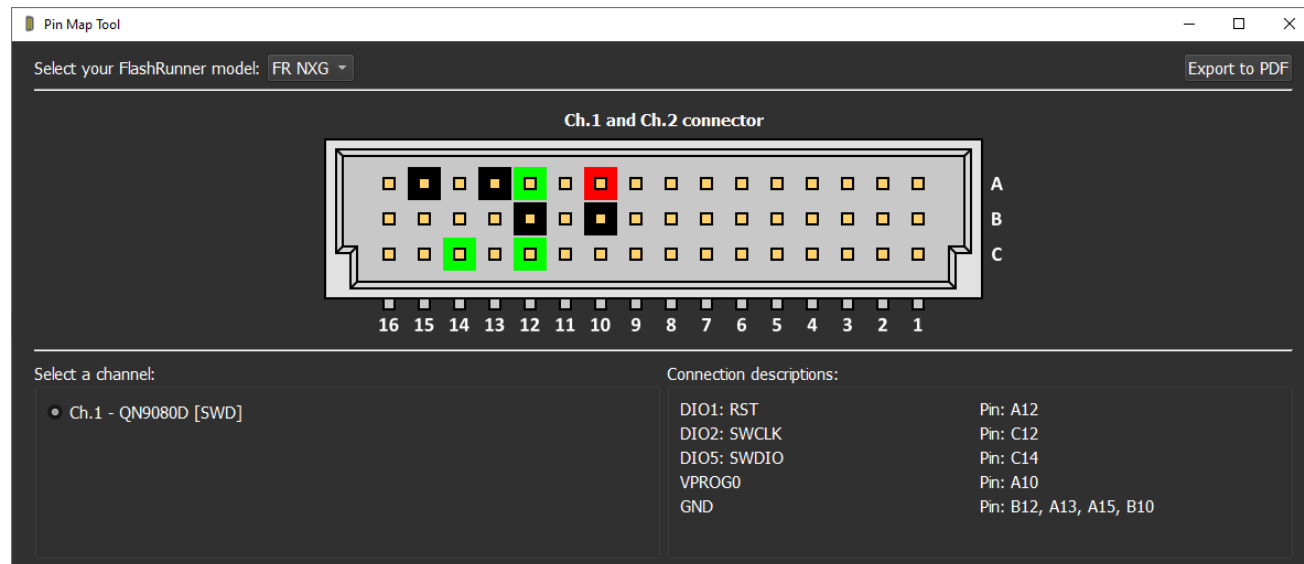
QN908x flashing algorithm supports SWD protocol.

#TCSETPAR CMODE <SWD>

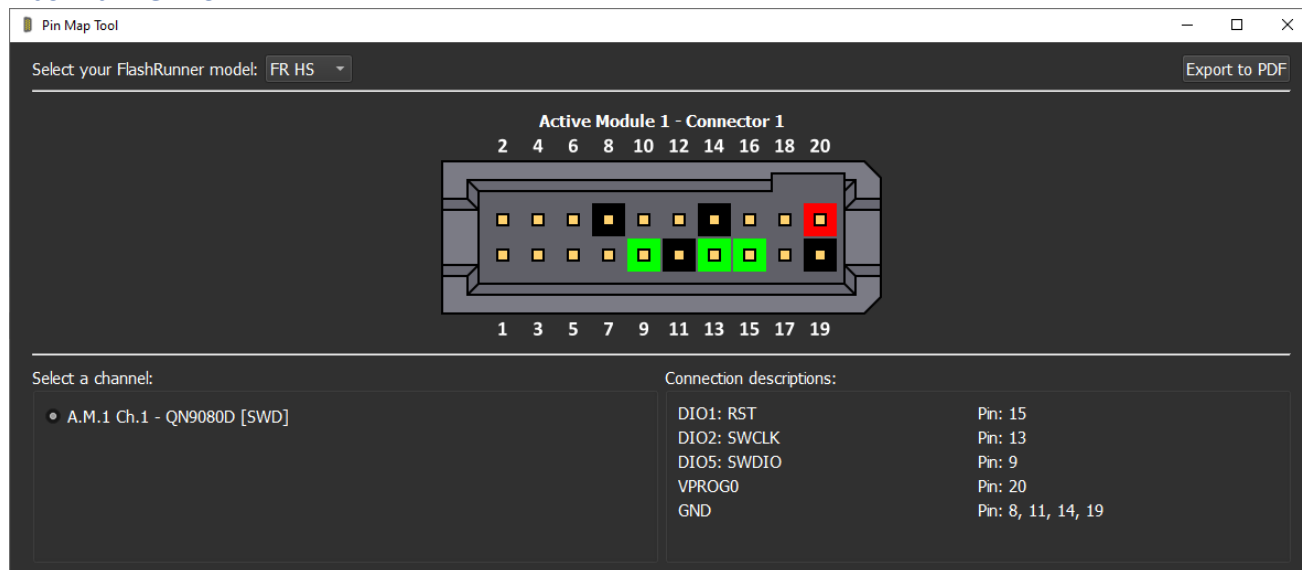
FlashRunner 2.0



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.

MASSERASE <memory_type>

This command unlocks the device and erase all 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.

Supported Memories

1. [F] – Flash

Additional Parameters

#TCSETPAR EXT_OSC <16|32[MHz]>

Based on the external oscillator placed between the XTAL pins of the MCU, the user can choose the frequency. The possibility provided by the chip manufacturer are 16 or 32. If not chosen, the algorithm will use the internal oscillator.

Commands

#TPCMD CONNECT

#TPCMD MASSERASE F

#TPCMD BLANKCHECK F [<start_address> <size>]

#TPCMD PROGRAM F

#TPCMD VERIFY F R|S

#TPCMD READ F <start_address> <size>

#TPCMD DUMP F <start_address> <size>

#TPCMD DISCONNECT