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Driver v. 1.00

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Interfacing FlashRunner 2.0 with LX Semicon LX6 Devices



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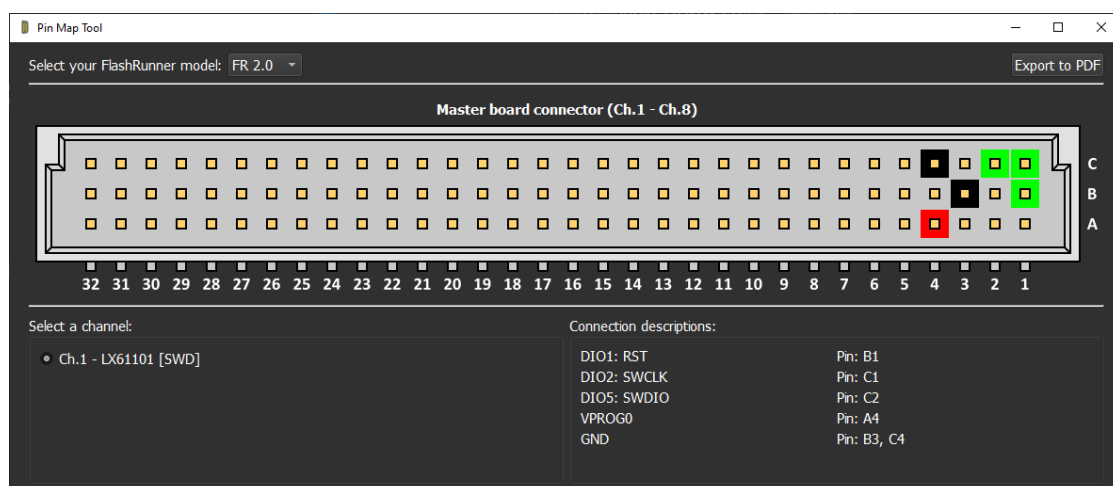
UNIVERSAL PRODUCTION IN-SYSTEM PROGRAMMING

LX6 Protocols and PIN maps

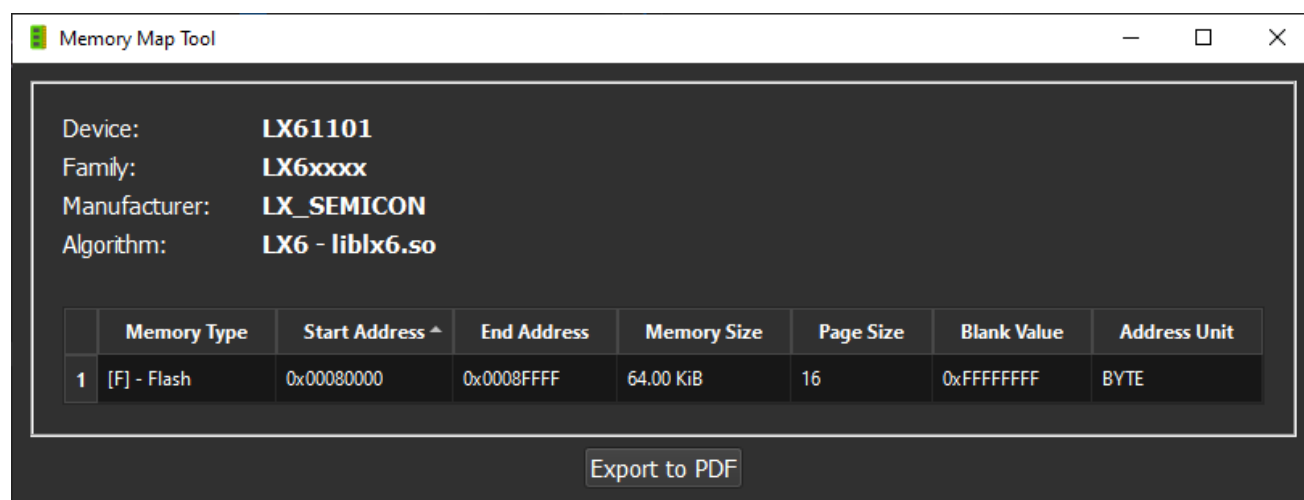
All the LX6 devices support the SWD protocol.

#TCSETPAR CMODE <SWD>

SWD PIN MAP



LX6 memory map



LX6 Available Commands

LX6 Standard Commands

MEMORY	MASSERASE	BLANKCHECK	PROGRAM	VERIFY READOUT	VERIFY CHECKSUM	READ	DUMP
Flash [F]	✓	✓	✓	✓	✓	✓	✓

LX6 Additional Commands

Commands for Flash memory:

#TPCMD LOCK <password> <xLIN_ENABLED|xLIN_DISABLED>
#TPCMD RUN <Time [s]>

LX6 Driver Commands

Here you can find the complete list of all available commands for the LX6 driver.

LX6 Standard Commands

This section will analyze standard commands, which are typically common across different drivers.

Memory type:
F → 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. It will also detect if the device is locked and eventually print it in the Log.

#TPCMD MASSERASE

#TPCMD MASSERASE <F>

Masserase command for Flash memory of target device.
This command will erase all the content of the selected memory.

#TPCMD BLANKCHECK

#TPCMD BLANKCHECK <F>

Blankcheck is available for Flash memory.
Verify if all memory is erased.

#TPCMD PROGRAM

#TPCMD PROGRAM <F>

Programs all Flash memory based on the data in the FRB file.

#TPCMD VERIFY

#TPCMD VERIFY <F> <R|S>

R: Readout Mode.
S: Checksum 32 Bit Mode.
Verify Readout is available for Flash memory.
Verify all memory of the selected type based on the data in the FRB file.

#TPCMD READ

#TPCMD READ <F>

Read all memory of selected type.
The result of the read command will be visible into the Terminal.

#TPCMD READ <F> <start address> <size>

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>

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> <start address> <size>

Dump selected part of memory of the selected type.

#TPCMD DISCONNECT

#TPCMD DISCONNECT

Disconnect function. Power off and exit.

Typically, these commands are available in the final section of the Graphical User Interface when creating a project.

Description: This command **permanently locks** write operations on the device.

Description: Move the Reset line up and down quickly if no parameter `<Time [s]>` is inserted.
`#TPCMD RUN <Time [s]>` instead moves the Reset line down and high, then waits for the entered time.
This command typically can be used to execute the firmware programmed in the device.

Info about driver version 1.00 - 10/02/2025
Supported Flash memory Commands for LX61101 devices.