

Features

- Intuitive MCU selection
- Automatic pinout configuration
- Easy GPIO configuration
 - I/O or peripheral alternate function
 - Code generation
- Efficient constraint solver to match your application requests
- Power consumption calculation for STM32L1 series ultralow power MCUs

Description

MicroXplorer is a graphical tool enabling users to configure an STM32 MCU very easily and generate the corresponding initialization code.

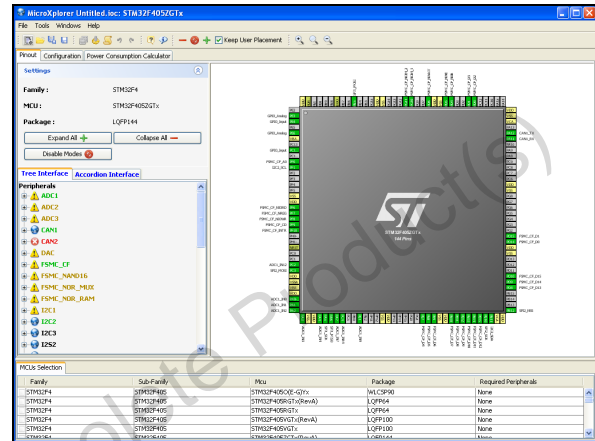
In a first step, MicroXplorer helps find the STM32s in the ST portfolio that feature the required peripherals.

In a second step, by selecting the operating mode of each peripheral, MicroXplorer assigns the pins needed for the peripheral in that operating mode.

In a third step users can configure the GPIOs (input, output or peripheral alternate function) to prepare for code generation.

Finally, the tool automatically generates the initialization code and a skeleton main. This code can be customized to match the application needs. Further code generation on the same file will keep the user changes.

MicroXplorer provides two viewing modes for performing the microcontroller configuration: Peripherals Panel for selecting the operating mode of each peripheral and Chip View for advanced users to force the mapping of a function of a peripheral to one physical pin.



A powerful constraint solver ensures that the selected pinout is compatible with the MCU and displays all available peripherals and the available modes of each peripheral. It can dynamically reassign pin functions to allow more peripherals to be selected.

Finally, on the Power Consumption view, MicroXplorer allows the user to select, for STM32L1 series, a microcontroller part number and a battery type, define a sequence of steps representing his application cycle and automatically obtain power consumption and battery life results.

Ordering Information

MicroXplorer is available for free download from STMicroelectronics.

MicroXplorer is replaced by STM32CubeMX version 4.0.

Revision history

Table 1. Document revision history

Date	Revision	Changes
14-Mar-2011	1	Initial release.
09-Jun-2011	2	Corrected order code in Table 1 .
04-Feb-2013	3	Modified screenshot, Features , Description . Deleted Table 1 . Added Ordering Information .
02-May-2013	4	Modified screenshot. Added Power consumption calculation for STM32L1 series ultralow power MCUs in Features and further related information in Description .
12-Feb-2014	5	updated Ordering Information : MicroXplorer is replaced by STM32CubeMX Version 4.0.

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