

WiSE-Studio free IDE on Windows®, Linux®, MAC® OS



Features

- Eclipse IDE
- Support for the BlueNRG-LPS, BlueNRG-LP, BlueNRG-1, BlueNRG-2 evaluation platforms
- GCC C/C++ compiler
- GDB-based debugger
- SWD channel support
- No code size limit and free of charge
- OS support: Windows®, Linux®, MAC® OS
- IOMapper tool

Description

The **STSW-WISE-STUDIO** package provides the WiSE-Studio Eclipse IDE, GCC toolchain based, supporting the BlueNRG family Bluetooth® Low Energy systems-on-chips (BlueNRG-1, BlueNRG-2, BlueNRG-LPS, BlueNRG-LP) and associated evaluation platforms.

The WiSE-STUDIO toolchain is provided free of charge for the user and it is based on standard GCC C/C++ compiler.

The tool offers an IDE environment allowing a specific user application to be built for the selected device, defining all the specific compile, assembler and linker options and to compile and run the application on the associated target device.

Furthermore, the tool offers standard debug capabilities to debug the user application through the selected SWD channel. CMSIS-DAP, J-Link, ST-Link/V2 are the supported SWD HW channels provided that the specific tool does not add any specific filter on the supported device.

The STSW-WISE-STUDIO IDE also includes the IO Mapper tool. This tool provides a graphical user interface allowing to setup the BlueNRG-LP and BlueNRG-LPS pins, peripherals settings and the related devices configuration. Then, it allows to generate the associated header and source files with related IDE projects (WiSE-STUDIO, IAR EWARM and KEIL MDK-ARM are supported).

For more information on how to use the tool, refer to the “Quick start” section provided under “WiSE-Studio User Guide” in the help menu of the tool.

The WiSE-Studio is delivered through three different software packages supporting the following platforms:

- Windows® (software part number: [STSW-WISE-WIN](#))
- Linux® (software part number: [STSW-WISE-LIN](#))
- MAC® OS (software part number: [STSW-WISE-MAC](#))

Note: Since WiSE-Studio is a Java® application, user must install the Oracle® Java Runtime Environment (JRE), or alternatives such as OpenJDK, as prerequisite to use this tool on all the supported platforms (Windows®, Linux® and MAC® OS).

Furthermore, on Linux® platforms, the GNU Make and libncurses5 must be installed:

- `sudo apt update`
- `sudo apt-get install build-essential libncurses5`

On MAC® OS platforms, the GNU Make must be installed (it is usually installed by Xcode).

Product status link	
WiSE-STUDIO Eclipse based, GCC toolchain	STSW-WISE-STUDIO
BlueNRG-LP SW development package	STSW-BNRGLP-DK
BlueNRG-1, BlueNRG-2 SW development package	STSW-BLUENRG1-DK
Bluetooth® Low Energy/ wireless systems- on-chips	BlueNRG-LPS, BlueNRG-LP, BlueNRG-1 and BlueNRG-2
Evaluation platforms	STEVAL-IDB011V1, STEVAL-IDB011V2, STEVAL-IDB012V1, STEVAL-IDB007V2, STEVAL-IDB008V2, STEVAL-IDB008V1M, STEVAL-IDB009V1 and STEVAL-IDB010V1
Applications	Wireless-connectivity

1 WiSE-Studio IDE and IOMapper tool

Figure 1. WiSE-Studio IDE

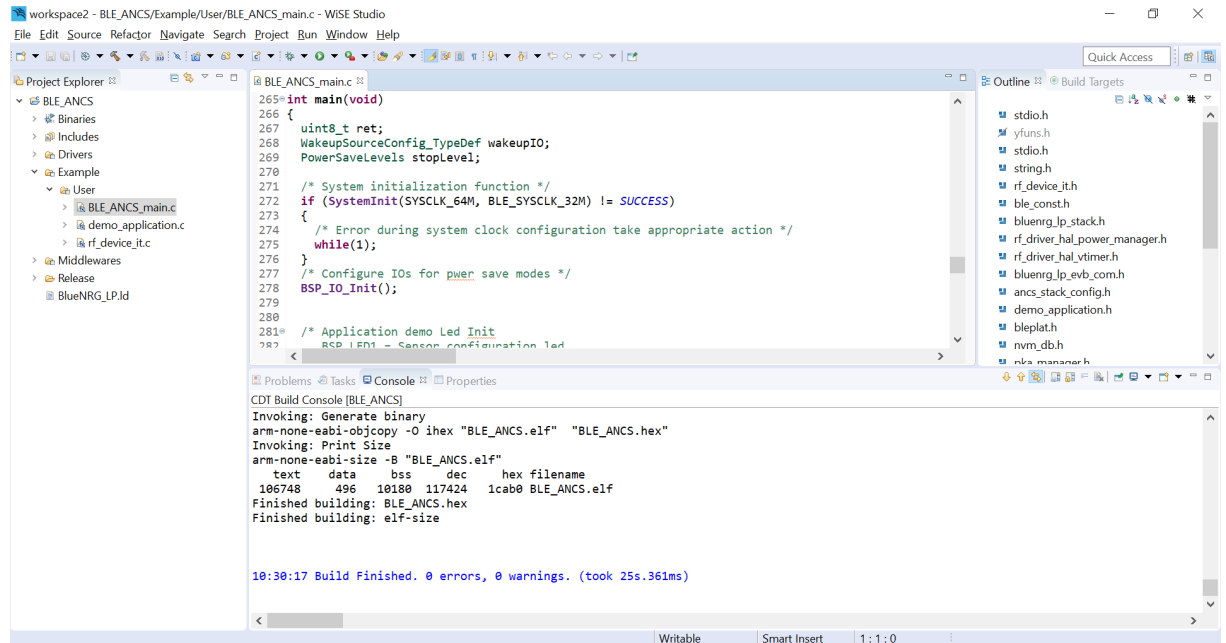
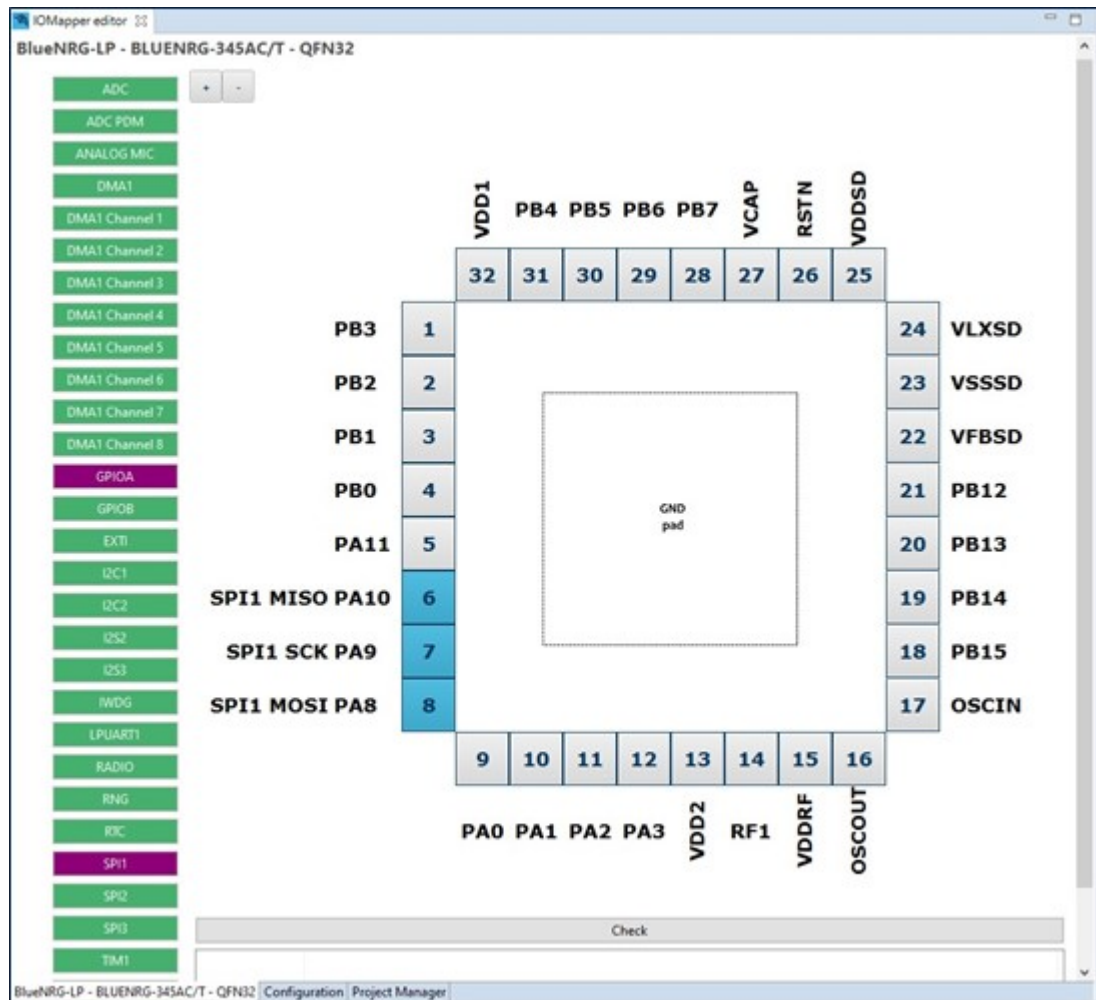


Figure 2. IOMapper tool



Revision history

Table 1. Document revision history

Date	Version	Changes
12-May-2021	1	Initial release.
10-Nov-2021	2	Updated the title, Features and Description.
06-Apr-2022	3	Updated the title, Features, Description and Product status link / summary.
13-Apr-2022	4	Updated Product status link / summary and the Description.
02-Mar-2023	5	Added reference to IOMapper tool in Features, Section 1 WiSE-Studio IDE and IOMapper tool

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