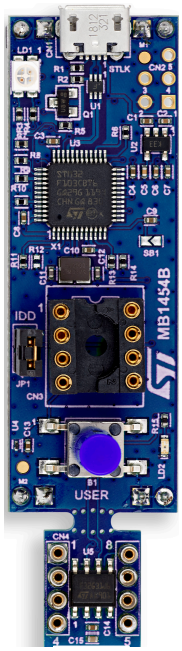
STM32G0316-DISCO

Data brief

Discovery kit with STM32G031J6 MCU



STM32G0316-DISCO top view. Picture is not contractual.

Product status link
STM32G0316-DISCO

Features

- STM32G031J6 Arm® Cortex® M0+ core-based microcontroller, featuring 32 Kbytes of Flash memory and 8 Kbytes of SRAM, in SO8 package
- 1 user LED
- 1 reset/user push-button
- Individual and breakable STM32 SO8 to DIL8 module
- Board connectors:
  - ST-LINK Micro-B USB connector
  - DIL8 socket to ease programming of the STM32 MCU
- On-board ST-LINK/V2-1 debugger/programmer with USB re-enumeration capability: Virtual COM port and debug port
- Comprehensive free software libraries and examples available with the STM32Cube
- MCU Package support of a wide choice of Integrated Development Environments (IDEs) including IAR™, Keil®, and GCC-based IDEs

Description

The STM32G0316-DISCO Discovery kit helps to discover features of STM32G0 in SO8 package. This discovery kit offers one SO8 to DIL8 module designed with the STM32G031J6 microcontroller and allows the user to develop and share applications. It includes an on-board ST-LINK/V2-1 to debug and program the embedded STM32 microcontroller.

The STM32G0316-DISCO Discovery kit is operated by plugging it into a PC through a standard USB Type-A to Micro-B cable.

1 Ordering information

To order the STM32G0316-DISCO Discovery kit, refer to Table 1. For a detailed description, refer to its user manual on the product web page. Additional information is available from the datasheet and reference manual of the target STM32.

Table 1. List of available products

Order code	Board reference	User manual	Target STM32
STM32G0316-DISCO	MB1454	UM2603	STM32G031J6M6U

1.1 Product marking

Evaluation tools marked as “ES” or “E” are not yet qualified and therefore not ready to be used as reference design or in production. Any consequences deriving from such usage will not be at ST charge. In no event, ST will be liable for any customer usage of these engineering sample tools as reference design or in production.

“E” or “ES” marking examples of location:

- On the targeted STM32 that is soldered on the board (for illustration of STM32 marking, refer to the STM32 datasheet “Package information” paragraph at the *www.st.com* website).
- Next to the evaluation tool ordering part number that is stuck or silk-screen printed on the board.

This board features a specific STM32 device version, which allows the operation of any bundled commercial stack/library available. This STM32 device shows a "U" marking option at the end of the standard part number and is not available for sales.

In order to use the same commercial stack in his application, a developer may need to purchase a part number specific to this stack/library. The price of those part numbers includes the stack/library royalties.

2 Development environment

The STM32G0316-DISCO Discovery kit runs with the STM32G031J6 32-bit microcontroller based on the Arm® Cortex®-M0+ core.

Note: Arm is a registered trademark of Arm Limited (or its subsidiaries) in the US and/or elsewhere.

2.1 System requirements

- Windows® OS (7, 8 and 10), Linux® 64-bit, or macOS®
- USB Type-A to Micro-B cable

Note: macOS® is a trademark of Apple Inc. registered in the U.S. and other countries.

2.2 Development toolchains

- Keil® MDK-ARM (see note)
- IAR™ EWARM (see note)
- GCC-based IDEs

Note: On Windows® only.

2.3 Demonstration software

The demonstration software, included in the STM32Cube MCU Package corresponding to the on-board microcontroller, is preloaded in the STM32 Flash memory for easy demonstration of the device peripherals in standalone mode. The latest versions of the demonstration source code and associated documentation can be downloaded from *www.st.com*.

Revision history

Table 2. Document revision history

Date	Version	Changes
13-Jun-2019	1	Initial release.

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