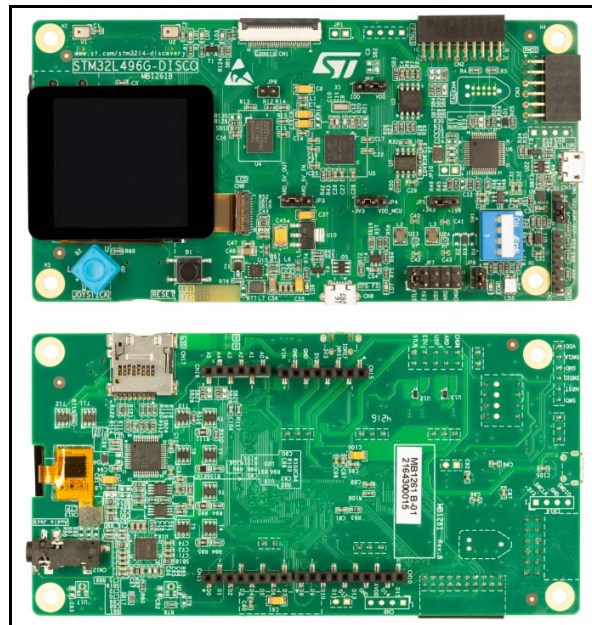


### Features

- STM32L496AGI6 microcontroller featuring 1 Mbyte of Flash memory and 320 Kbytes of RAM in an UFBGA169 package
- 1.54 inch 240 x 240 pixel-TFT color LCD with parallel interface
- SAI Audio CODEC, with a stereo headset jack, including analog microphone input
- Stereo digital MEMS microphones
- microSD™ card connector (card included)
- Camera 8 bit-connector
- STMod+ and PMOD connectors
- 8 Mbit-PSRAM
- IDD measurement
- 64 Mbit-Quad-SPI Flash
- 8 LEDs
- Reset push button
- 4 direction-joystick with selection
- USB OTG FS with Micro-AB connector
- Compatible Arduino™ Uno V3 connectors
- On-board ST-LINK/V2-1 debugger
- USB ST-LINK functions: Virtual COM port, mass storage, debug port
- 5 source options for power supply
  - ST-LINK/V2-1 USB connector
  - User USB FS connector
  - VIN from Arduino™ connector
  - 5 V from Arduino™ connector
  - USB charger
- 2 possible supply voltages for the MCU: 1.8 V and 3.3 V
- Comprehensive free software including a variety of examples, part of the STM32Cube package



1. Pictures are not contractual.

### Description

The 32L496GDISCOVERY Discovery board is a complete demonstration and development platform for STMicroelectronics ARM® Cortex® -M4 core-based STM32L496AG microcontroller. Thanks to the innovative ultra-low-power oriented features, extended RAM and graphics performance (Chrom-ART Accelerator™) offered by the STM32L496AG, the 32L496GDISCOVERY board is designed to enable easy prototyping for many applications, including audio and graphics, with state-of-the-art energy efficiency. For even more user-friendliness, the on-board ST-LINK/V2-1 debugger provides out-of-the-box loading and debugging capabilities.

## System requirements

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

## Development toolchains

- Keil® MDK-ARM (a)
- IAR™ EWARM (a)
- GCC-based IDEs including free SW4STM32 from AC6

## Demonstration software

The demonstration software is preloaded in the STM32L496AGI6 Flash memory for easy demonstration of the device peripherals. This demonstration software as well as a detailed guide explaining how to reload it into the STM32L496AGI6 Flash memory are available. For all the details refer to the dedicated board technical documentation from [www.st.com/stm32l4-discovery](http://www.st.com/stm32l4-discovery).

## Ordering information

To order the 32L496GDISCOVERY Discovery kit, refer to [Table 1](#):

**Table 1. Ordering information**

Order code	Target STM32
STM32L496G-DISCO	STM32L496AGI6

## Technology partners

### MACRONIX:

- 64-Mbit Quad-SPI NOR Flash memory device, part number MX25R6435FM2IL0

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a. On Windows® only.

## Revision history

**Table 2. Document revision history**

Date	Revision	Changes
01-Feb-2017	1	Initial release.

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