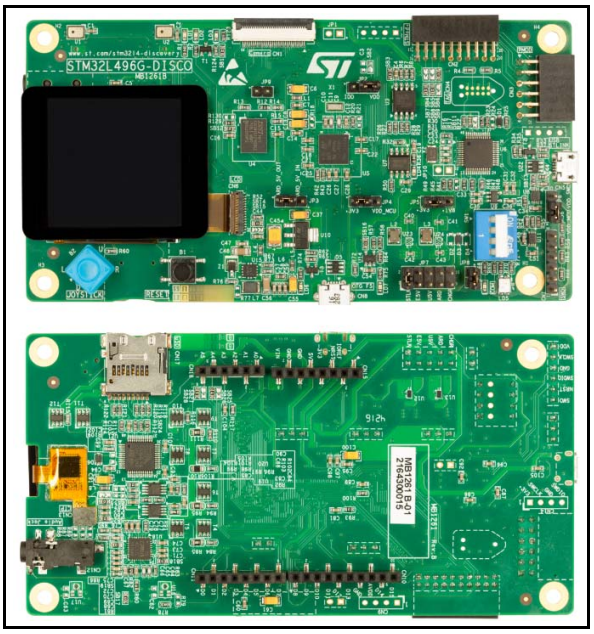
32L496GDISCOVERY

Discovery kit with STM32L496AG MCU

Data brief

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.

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

a. On Windows® only.

Revision history

Table 2. Document revision history

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

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