P-L496G-CELL02

## STM32 discovery pack for LTE IoT cellular to cloud

Features

- STM32L496AGI6 microcontroller featuring 1 Mbyte of Flash memory and 320 Kbytes of RAM in a UFBGA169 package

- USB OTG HS

- On-board current measurement

- SAI Audio CODEC

- ST-MEMS digital microphones

- 8-Mbit PSRAM

- 2 user LEDs

- 1 user and 1 reset push-buttons

- 4-direction joystick with selection button

- Board connectors:
  - Camera 8 bit
  - USB with Micro-AB
  - Stereo headset jack including analog microphone input
  - microSD™ card

- Board expansion connectors:
  - Arduino™ Uno V3
  - STMod+

- Board expansion features:
  - Quectel BG96 worldwide cellular modem LTE Cat M1/Cat NB1/EGPRS module 300 kbps downlink, 375 kbps uplink
  - Modem reset red LED and modem signaling green LED
  - ST Incard™ eSIM based on ST33
  - Switchable SIM interface, eSIM and MicroSIM
  - Pulse SMA antenna for frequency ranges: 824 / 900 / 1800 / 1900 / 2100 MHz

- Flexible power-supply options: ST-LINK, USB V$_{BUS}$, or external sources
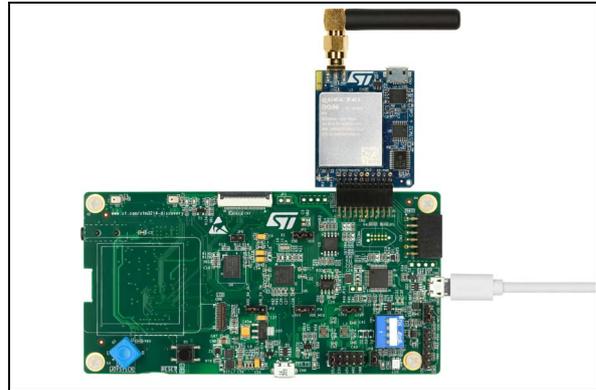
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- On-board ST-LINK/V2-1 SWD,TAG debugger/programmer with USB re-enumeration capability: mass storage, virtual COM port and debug port

- Comprehensive free software libraries and examples available with the STM32Cube package

- Support of a wide choice of Integrated Development Environments (IDEs) including IAR™, Keil®, GCC-based IDEs

Description

The P-L496G-CELL02 STM32 discovery pack for LTE IoT cellular to cloud (STM32-C2C/LTE IoT) is a turnkey development platform for cellular and cloud technology based solutions.

The pack is composed of an STM32L496AGI6-based low-power discovery mother board with preloaded firmware, and an STMod+ cellular expansion board with antenna.

General information

The firmware of the P-L496G-CELL02 discovery pack runs on the STM32L496AGI6 Arm[®]-based device.

System requirements

- Windows[®] OS (7, 8 and 10), Linux[®] 64-bit 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 STM32 Flash preloaded demonstration software yields an electronic ST Voucher and a URL through the USB ST-Link Virtual COM port, which, through a dedicated STM32-C2C Concierge Portal, allows the Discovery Pack owner to enable corresponding services from ST and various partners, including many precompiled demo Flash binaries. The latest versions of the demonstration source code and associated documentation can be downloaded from the *www.st.com* webpage.

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a. On Windows[®] only

Ordering information

To order the P-L496G-CELL02 discovery pack refer to *Table 1*.

Table 1. Ordering information

Order code	Target STM32
P-L496G-CELL02	STM32L496AGI6

Technology partners

AVSystem:

- LwM2M cloud-based device management

QUECTEL:

- Worldwide LTE IoT EGPRS module

EXOSITE:

- Cloud data management

GROVESTREAMS:

- IoT platform

Revision history

Table 2. Document revision history

Date	Revision	Changes
15-Feb-2018	1	Initial version
22-May-2018	2	Updated *Features* to add ST Incard™ eSIM, *Demonstration software* for precisions, and *Technology partners* to replace EMNIFY by AVSystem

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