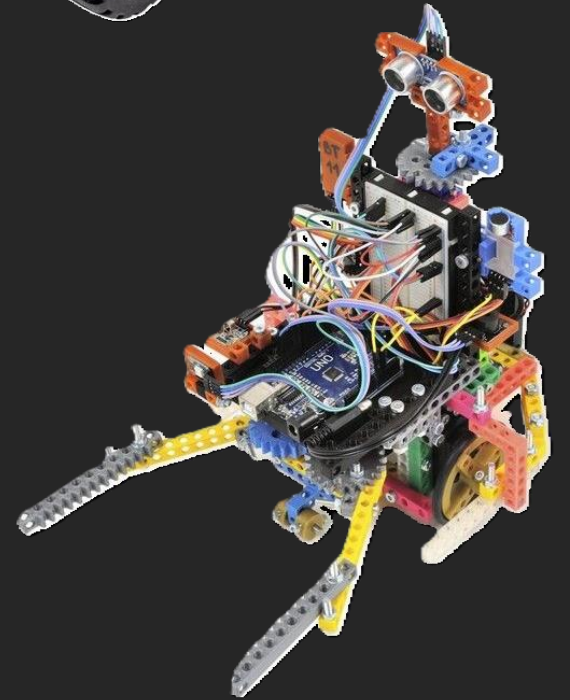
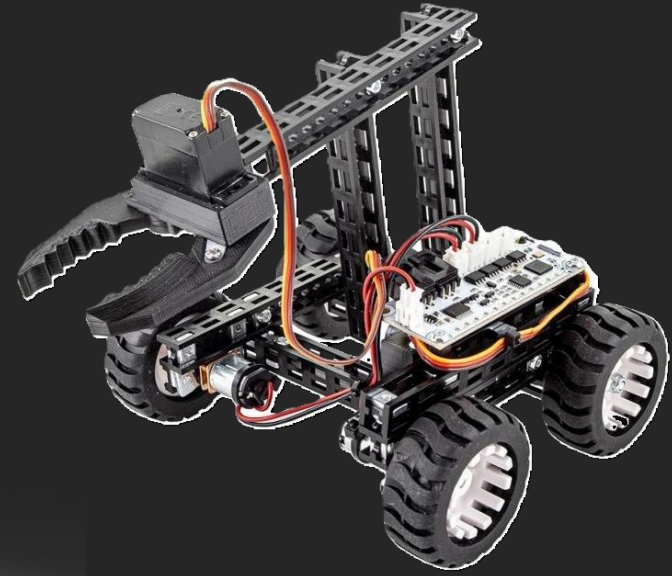




Postavte si robota

LUBOŠ LANGHAMMER

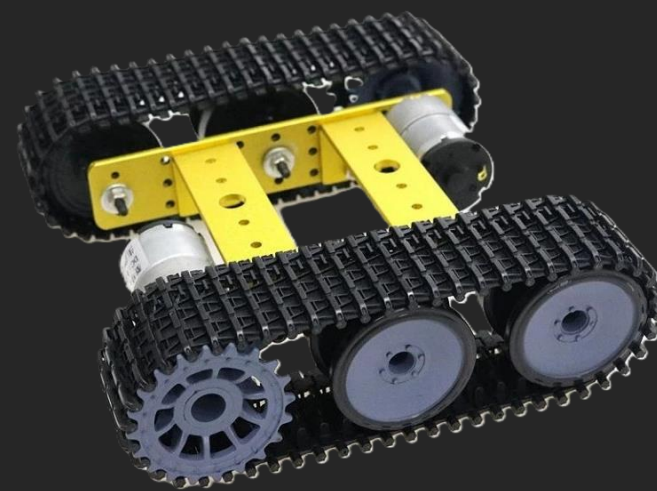
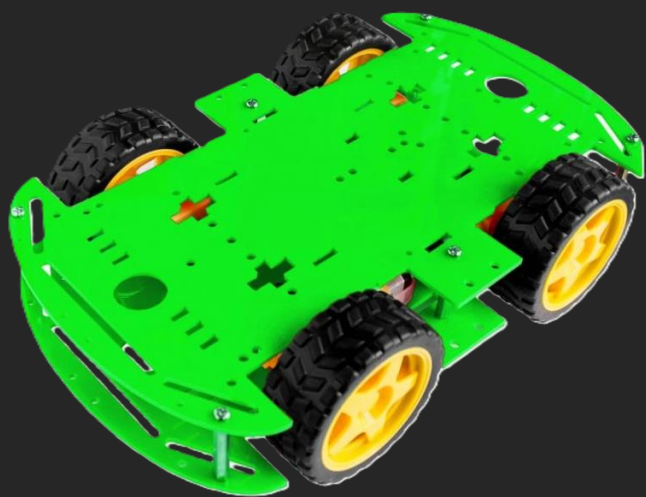
ROBODOUPE.CZ



Stavebnice

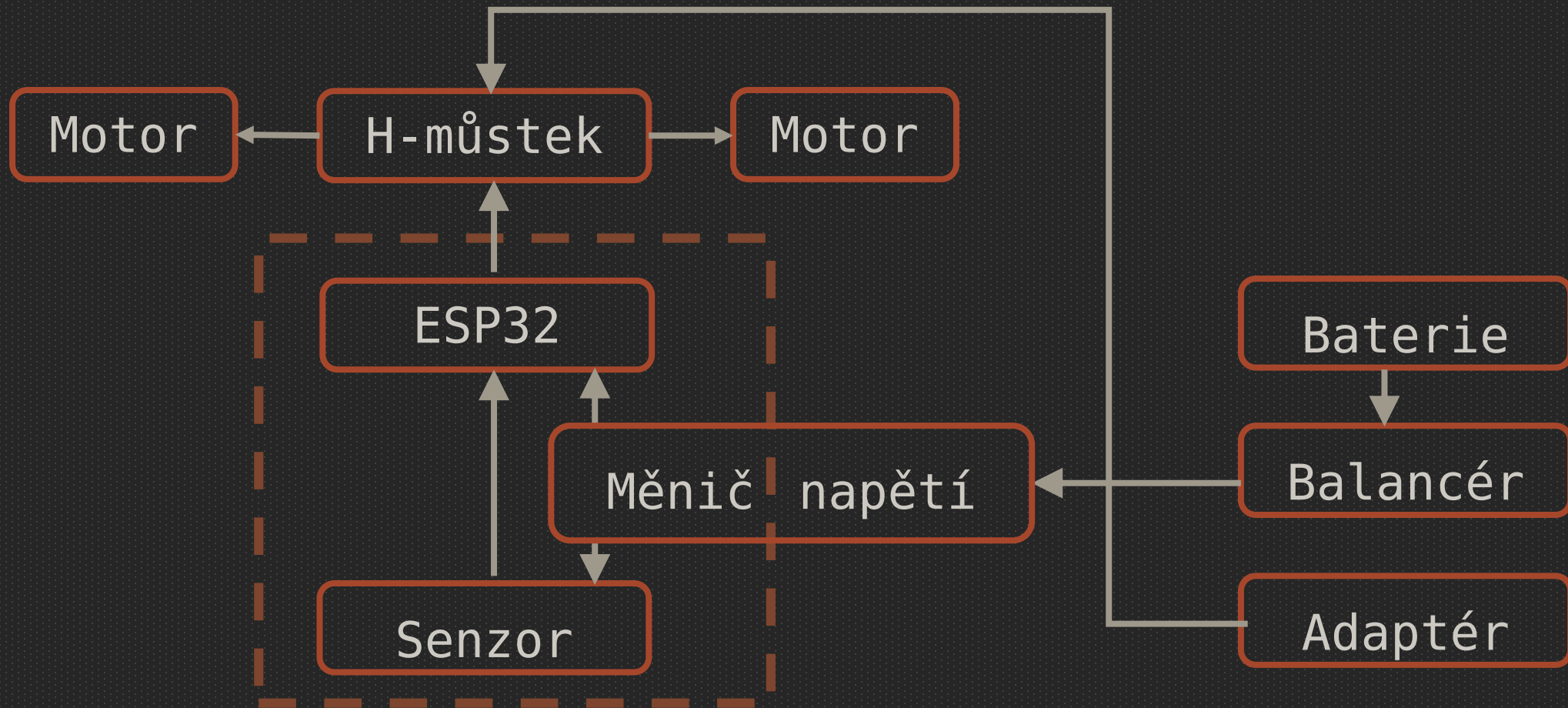
Stavebnice

- Merkur <https://eshop.merkurtoys.cz/k7-robotika>
 - Totem <https://shop.hobbyrobot.cz/116-sady-a-stavebnice>
 - Lego <https://ruzovka.cz/cs/lego-education/16660-lego-education-45544-ev3-zakladni-souprava-vbt.html>
 - BitBeam <https://bitbeam.cc/cs/>
 - Další
 - <https://www.zive.cz/clanky/nejlepsi-pocitacove-stavebnice/sc-3-a-195794/default.aspx>
-



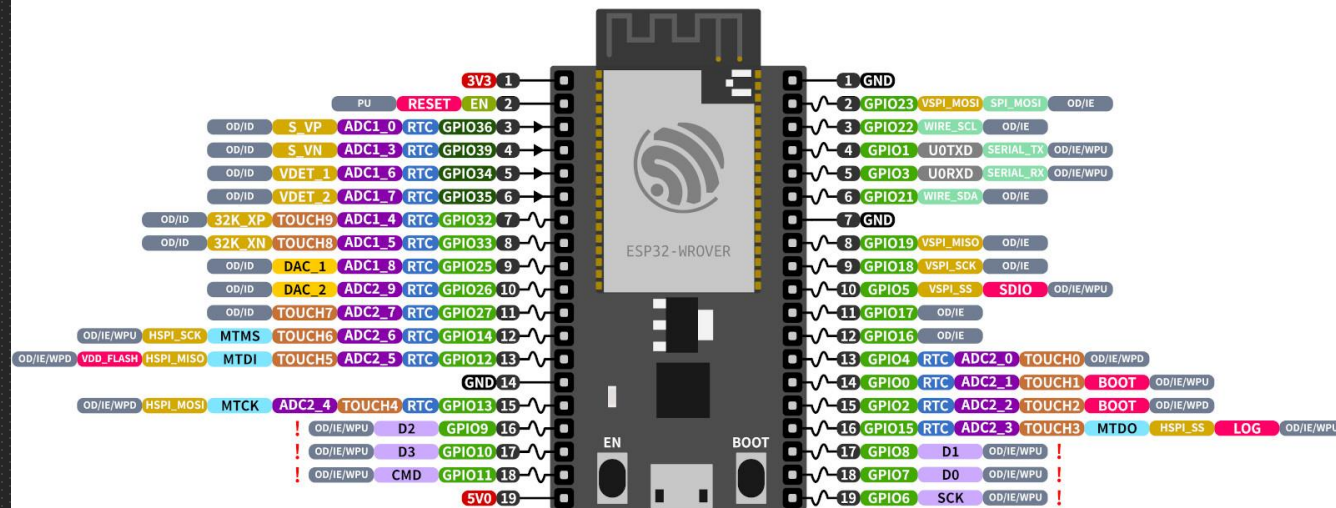
Podvozek

Komponenty



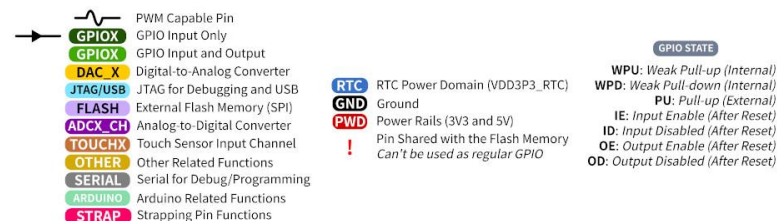
Pinaout a Datašit

ESP32-DevKitC



ESP32 Specs

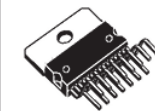
32-bit Xtensa® dual-core @240MHz
Wi-Fi IEEE 802.11 b/g/n 2.4GHz
Bluetooth 4.2 BR/EDR and BLE
520 KB SRAM (16 KB for cache)
448 KB ROM
34 GPIOs, 4x SPI, 3x UART, 2x I2C,
2x I2S, RMT, LED PWM, 1 host SD/eMMC/SDIO,
1 slave SDIO/SPI, TWAI®, 12-bit ADC, Ethernet



L298

DUAL FULL-BRIDGE DRIVER

- OPERATING SUPPLY VOLTAGE UP TO 46 V
- TOTAL DC CURRENT UP TO 4 A
- LOW SATURATION VOLTAGE
- OVERTEMPERATURE PROTECTION
- LOGICAL "0" INPUT VOLTAGE UP TO 1.5 V (HIGH NOISE IMMUNITY)



Multiwatt15



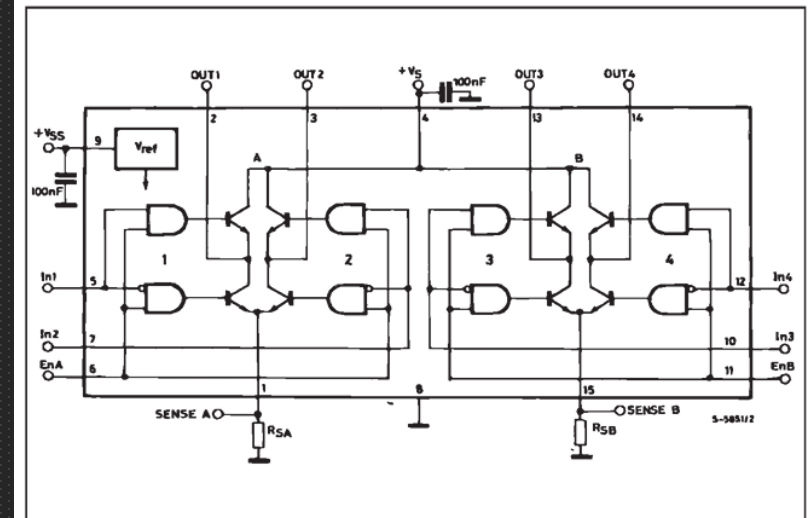
PowerSO20

DESCRIPTION

The L298 is an integrated monolithic circuit in a 15-lead Multiwatt and PowerSO20 packages. It is a high voltage, high current dual full-bridge driver designed to accept standard TTL logic levels and drive inductive loads such as relays, solenoids, DC and stepping motors. Two enable inputs are provided to enable or disable the device independently of the input signals. The emitters of the lower transistors of each bridge are connected together and the corresponding external terminal can be used for the connection of an external sensing resistor. An additional supply input is provided so that the logic works at a lower voltage.

ORDERING NUMBERS : L298N (Multiwatt Vert.)
L298HN (Multiwatt Horiz.)
L298P (PowerSO20)

BLOCK DIAGRAM



Soupiska 1/2

- Podvozek <https://www.laskakit.cz/arduino-podvozek-4wd/>
 - Řídicí jednotka ESP32 <https://www.laskakit.cz/iot-esp-32s-2-4ghz-dual-mode-wifi-bluetooth-rev-1--cp2102/>
 - H-můstek <https://www.laskakit.cz/h-mustek-pro-krokovy-motor-l298n--dualni-motorovy-modul/>
 - Senzor <https://www.laskakit.cz/arduino-ultrazvukovy-meric-vzdalenosti-hc-sr04/>
 - Kabely <https://www.laskakit.cz/kabelaz-dps/strana-2/>
-

Soupiska 2/2

- Baterie [Baterie Li-Ion a LiPol | LaskaKit](#)
 - Balancér [Ochrana a balancér Li-Ion baterie 2S 20A | LaskaKit](#)
 - Menič napětí <https://www.laskakit.cz/mini-smd-step-down-menic-5v/>
 - Držák bateri <https://www.laskakit.cz/bateriovy-box-2x18650-do-dps/>
-

Tipy

- Dokumentace dle datových listů (datasheet) a popisu pinů (pinout)
 - Napájecí napětí a logické úrovně
 - Arduino ESP32 a název komponenty co chci použít
 - Bing.com Copilot
-



Děkuji za pozornost