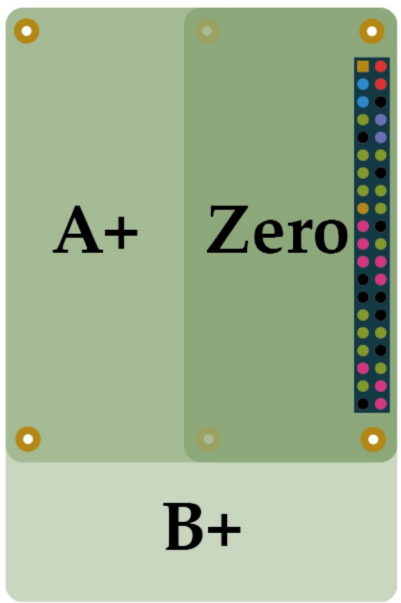
Raspberry Pi Pinout

3v3 Power	1	2	5v Power
GPIO 2 (MS5611 Data)	3	4	5v Power
GPIO 3 (MS5611 Clock)	5	6	Ground
GPIO 4 (Red LED)	7	8	GPIO 14 (UART TX)
Ground	9	10	GPIO 15 (UART RX)
GPIO 17	11	12	GPIO 18 (PCM CLK)
GPIO 27 (Green LED)	13	14	Ground
GPIO 22 (LSM9DS1 Magneto CS)	15	16	**GPIO 23** (MPU9250 Interrupt)
3v3 Power	17	18	**GPIO 24** (RCIO PC10)
GPIO 10 (SPI0 MOSI)	19	20	Ground
GPIO 9 (SPI0 MISO)	21	22	**GPIO 25** (LSM9DS1 Accel/Gyro
GPIO 11 (SPI0 SCLK)	23	24	**GPIO 8** (SPI0 CE0)
Ground	25	26	**GPIO 7** (MPU9250 Chip Select)
GPIO 0 (EEPROM SDA)	27	28	GPIO 1 (EEPROM SCL)
GPIO 5 (RCIO PC11)	29	30	Ground
GPIO 6 (Blue LED)	31	32	**GPIO 12** (RCIO Clock)
GPIO 13 (RCIO Data)	33	34	Ground
GPIO 19 (RCIO MISO)	35	36	**GPIO 16** (RCIO Chip Select)
GPIO 26	37	38	**GPIO 20** (RCIO MOSI)
Ground	39	40	**GPIO 21** (RCIO SCLK)

Legend

Orientate your Pi with the GPIO on the right and the HDMI port(s) on the left.

- GPIO (General Purpose IO)
- SPI (Serial Peripheral Interface)
- I^2C (Inter-integrated Circuit)
- UART (Universal Asynchronous Receiver/Transmitter)
- PCM (Pulse Code Modulation)
- Ground
- 5v (Power)
- 3.3v (Power)



5v Power WiringPi Ground SDIO I2C 3v3 Power
DPI 1-WIRE SPI JTAG PWM GPCLK UART
PCM

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Navio2 Autopilot

The Navio2 Autopilot is designed both for your own custom robotic projects and as a platform for Linux version of APM (ArduPilot).

Navio2 eliminates the need for multiple on-board controllers making development easier and increasing robustness. It extends connectivity and allows control of all kinds of moving robots: cars, boats, multirotors, planes.

For accurate knowledge of position and orientation Navio2 is equipped with double IMU and GPS/ Glonass/Beidou receiver. PWM, ADC, SBUS and PPM are integrated in Linux sysfs via the on-board RC I/O co-processor, allowing easy access from any programming language.

Features

- MS5611 Barometer (I2C1)
- MPU9250 9DOF IMU (SPI0)
- LSM9DS1 9DOF IMU (SPI0)
- Ublox M8N Glonass/GPS/Beidou (SPI0)
- 14 PWM servo outputs (RCIO/SPI1)
- PPM/S.Bus input (RCIO/SPI1)
- 6-channel ADC (RCIO/SPI1)
- Integrated RGB LED
- UART, I2C terminals for extensions
- Power module connector
- Triple redundant power supply

Details

- Made by Emlid
- HAT form-factor
- EEPROM auto configuration
- Needs 5v and 3v3 power
- Uses 21 GPIO pins
- Communication over SPI
- Communication over I2C
- 0x77: MS5611
- More Information
- GitHub Repository
- Buy Now

Spotted an error, want to add your board's pinout? Contribute to Pinout.xyz at GitHub
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