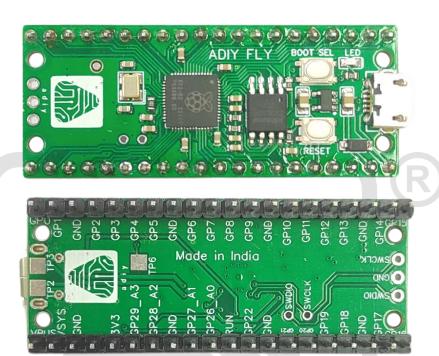


ADIY FLY Pico RP2040 Basic Board



ADIY FLY basic comes with a large on-chip memory, symmetric dual-core processor complex, deterministic bus fabric, and rich peripheral set augmented with a unique Programmable I/O (PIO) subsystem, RP2040 provides professional users with unrivalled power and flexibility. ADIY FLY pairs RP2040 with 4MB of Flash memory, and a power supply chip supporting input voltages from 3.3-5.5V. It provides 27 GPIO pins, 4 of which can function as analogue inputs, on 2.54mm-pitch through-hole pads. The RESET button on ADIY FLY makes the usage of module easy.

RP2040 is manufactured on a modern 40nm process node, delivering high performance, low dynamic power consumption, and low leakage, with a variety of low-power modes to support extended-duration operation on battery power.



Features:

- 1. Dual ARM Cortex-M0+ @ 133MHz
- 2. 264kB on-chip SRAM in six independent banks
- 3. RP2040 microcontroller with 4MB Flash
- 4. 3-pin ARM Serial Wire Debug (SWD) port
- 5. 8 × Programmable I/O (PIO) state machines for custom peripheral support Micro-USB B port for power and data
- 6. 27 GPIO pins, 4 of which can be used as analog inputs

Peripherals:

- 2 UARTs
- 2 SPI controllers
- 2 I2C controllers
- 16 PWM channels
- USB 1.1 controller and PHY, with host and device support
- 8 PIO state machines

Advantages:

- Cheap and great for first timers
- Great for real time applications
- Low power consumption

www.adiy.in 2