WiPy® PINOUT
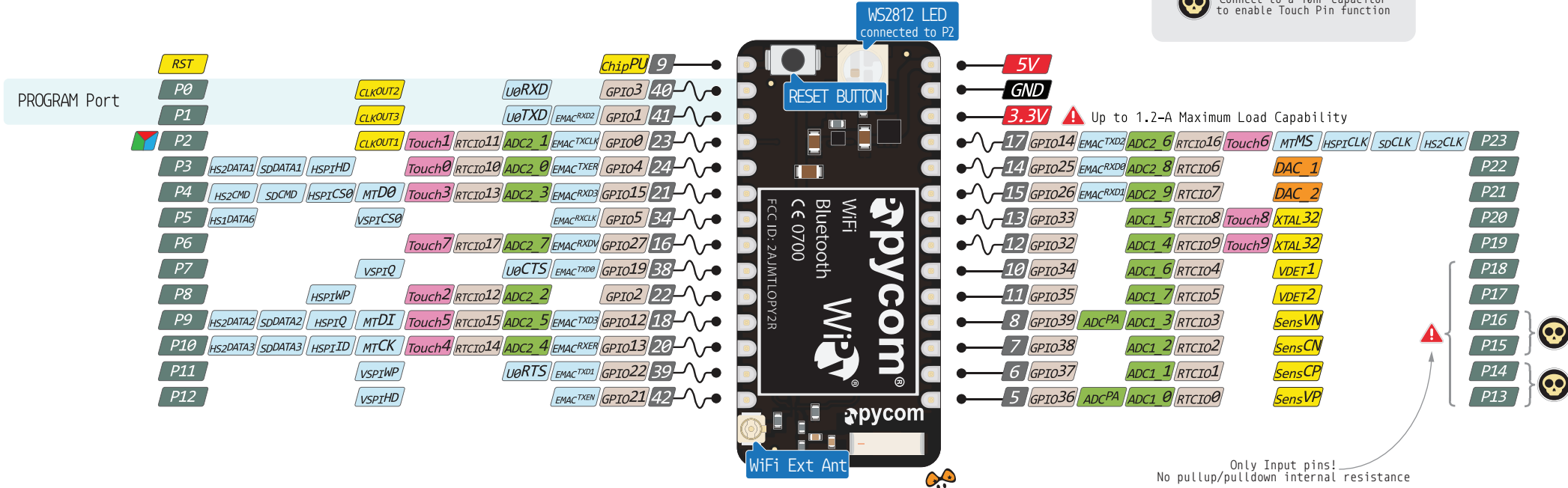
Absolute MAX per pin 12mA
recommended 6mA

Hack your WiPy!

Connect to a 10nF capacitor to enable Touch Pin function

WS2812 LED connected to P2

RESET BUTTON

PROGRAM Port

RST					
P0	CLKOUT2		U0RXD	GPIO3	40
P1	CLKOUT3		U0TXD EMACRXD2	GPIO1	41
P2	CLKOUT1 Touch1 RTCIO11 ADC2_1	EMACTXCLK	GPIO0	23
P3	HS2DATA1 SDDATA1 HSPIHD	Touch0 RTCIO10 ADC2_0 EMACTXER	GPIO4	24
P4	HS2CMD SDCMD HSPICS0 MTD0	Touch3 RTCIO13 ADC2_3 EMACRXD3	GPIO15	21
P5	HS1DATA6	VSPICS0	EMACRXCLK	GPIO5	34
P6		Touch7 RTCIO17 ADC2_7 EMACRXDV	GPIO27	16
P7		VSPIQ	U0CTS EMACTXD0	GPIO19	38
P8	HSPIWP	Touch2 RTCIO12 ADC2_2	GPIO2	22
P9	HS2DATA2 SDDATA2 HSPIQ MTDI	Touch5 RTCIO15 ADC2_5 EMACTXD3	GPIO12	18
P10	HS2DATA3 SDDATA3 HSPIID MTCK	Touch4 RTCIO14 ADC2_4 EMACRXER	GPIO13	20
P11		VSPIWP	U0RTS EMACTXD1	GPIO22	39
P12		VSPIHD	EMACTXEN GPIO21	42

ChipPU 9

5V
GND
3.3V   ⚠ Up to 1.2-A Maximum Load Capability

17	GPIO14 EMACTXD2 ADC2_6 RTCIO16 Touch6	MTMS HSPICLK SDCLK HS2CLK	P23
14	GPIO25 EMACRXD0 ADC2_8 RTCIO6	DAC_1	P22
15	GPIO26 EMACRXD1 ADC2_9 RTCIO7	DAC_2	P21
13	GPIO33 ADC1_5 RTCIO8 Touch8 XTAL32	P20
12	GPIO32 ADC1_4 RTCIO9 Touch9 XTAL32	P19
10	GPIO34 ADC1_6 RTCIO4 VDET1	P18
11	GPIO35 ADC1_7 RTCIO5 VDET2	P17
8	GPIO39 ADCPA ADC1_3 RTCIO3 SensVN	P16
7	GPIO38 ADC1_2 RTCIO2 SensCN	P15
6	GPIO37 ADC1_1 RTCIO1 SensCP	P14
5	GPIO36 ADCPA ADC1_0 RTCIO0 SensVP	P13

⚠ Only Input pins!
No pullup/pulldown internal resistance

WiFi Ext Ant

FCC ID: 2AJMTLOPY2R
CE 0700
WiFi Bluetooth
pycom WiPy

Legend

- 🟥 Power
- ⬛ GND
- 🟦 Serial Pin
- 🟩 Analog Pin
- 🟨 Control
- ⬛ Physical Pin
- 🟫 Port Pin
- 🟪 Touch Pin
- 🟧 DAC Pin
- ∿ PWM Pin

Low Level Bootloader

P2 + GND

Boot modes and safe boot

P12 + 3.3V

1-3sec	⏱	Safe boot, latest firmware is selected
4-6sec	⏱	Safe boot, previous user update selected
7-9sec	⏱	Safe boot, the factory firmware is selected

Internal Functions

25 GPIO16 EMACCLKOUT U2RXD HS1DATA4   External Antenna Switch

makr pycom
TX RTS RX CTS BAT LED CHG
USB CHG LED BUTTON

CC BY SA
05 Nov 2016
ver 1 rev 1