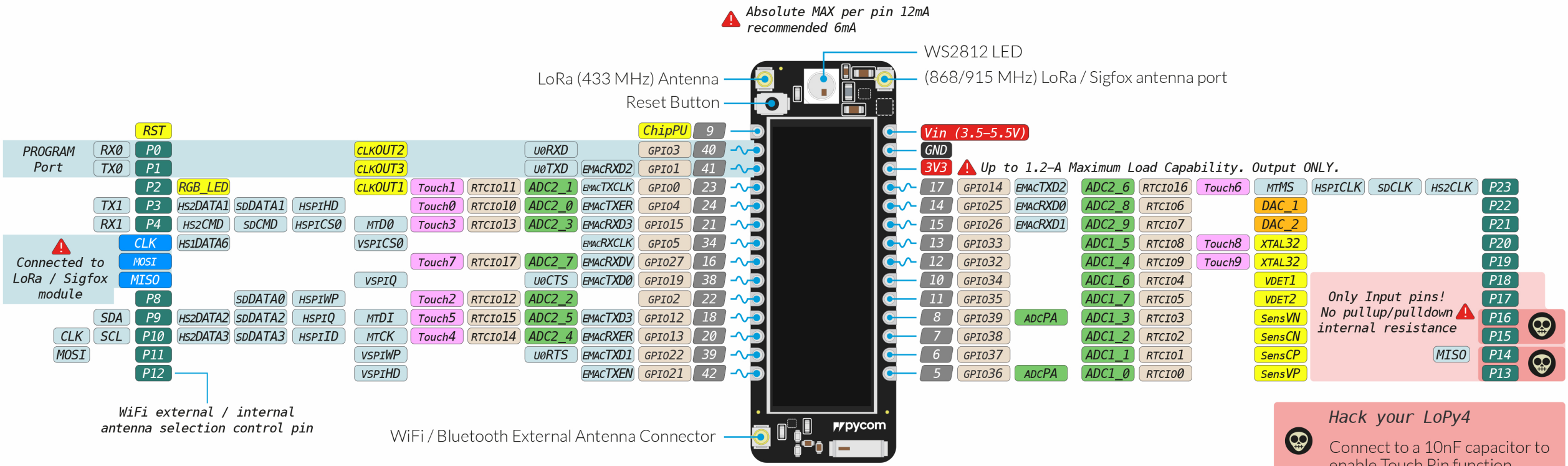
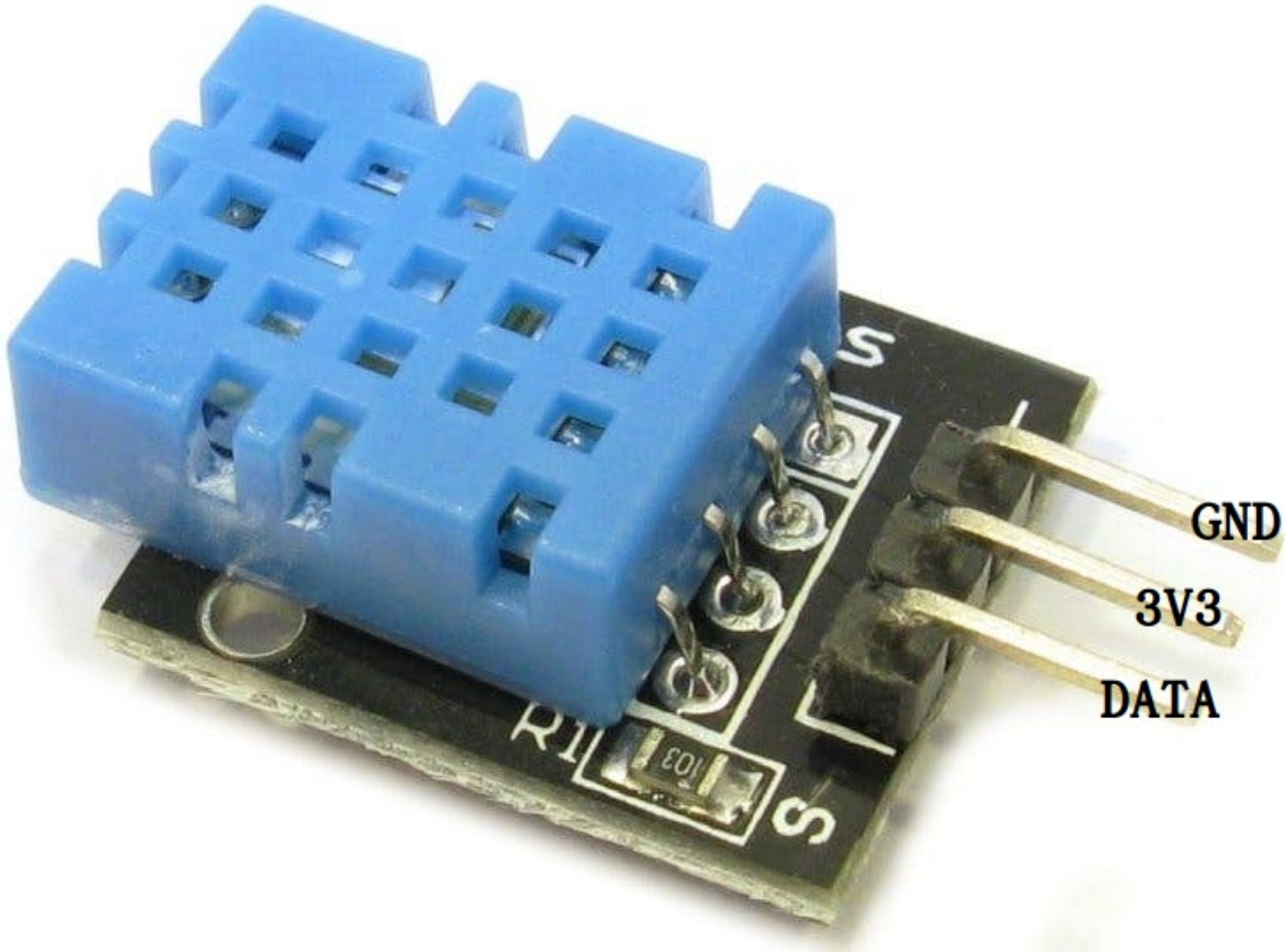
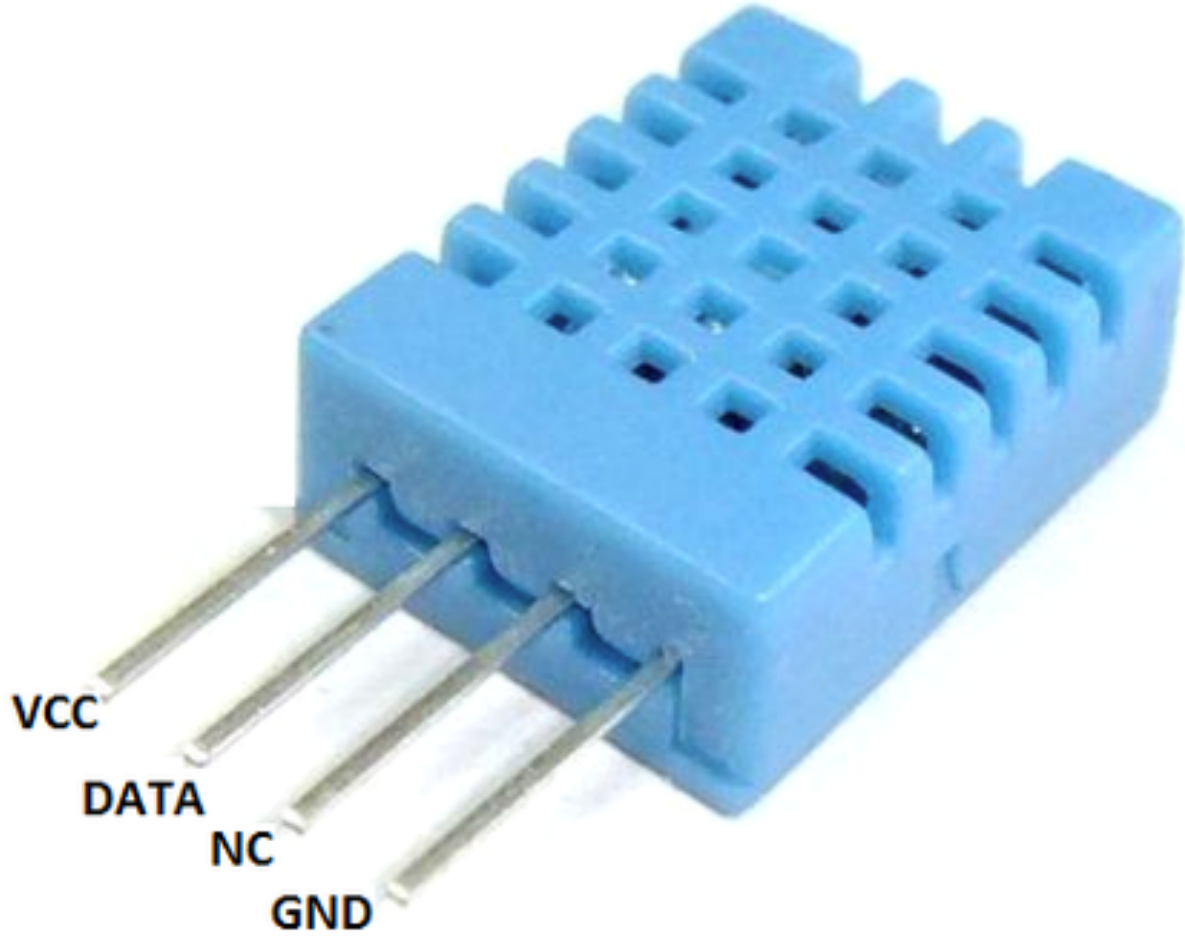
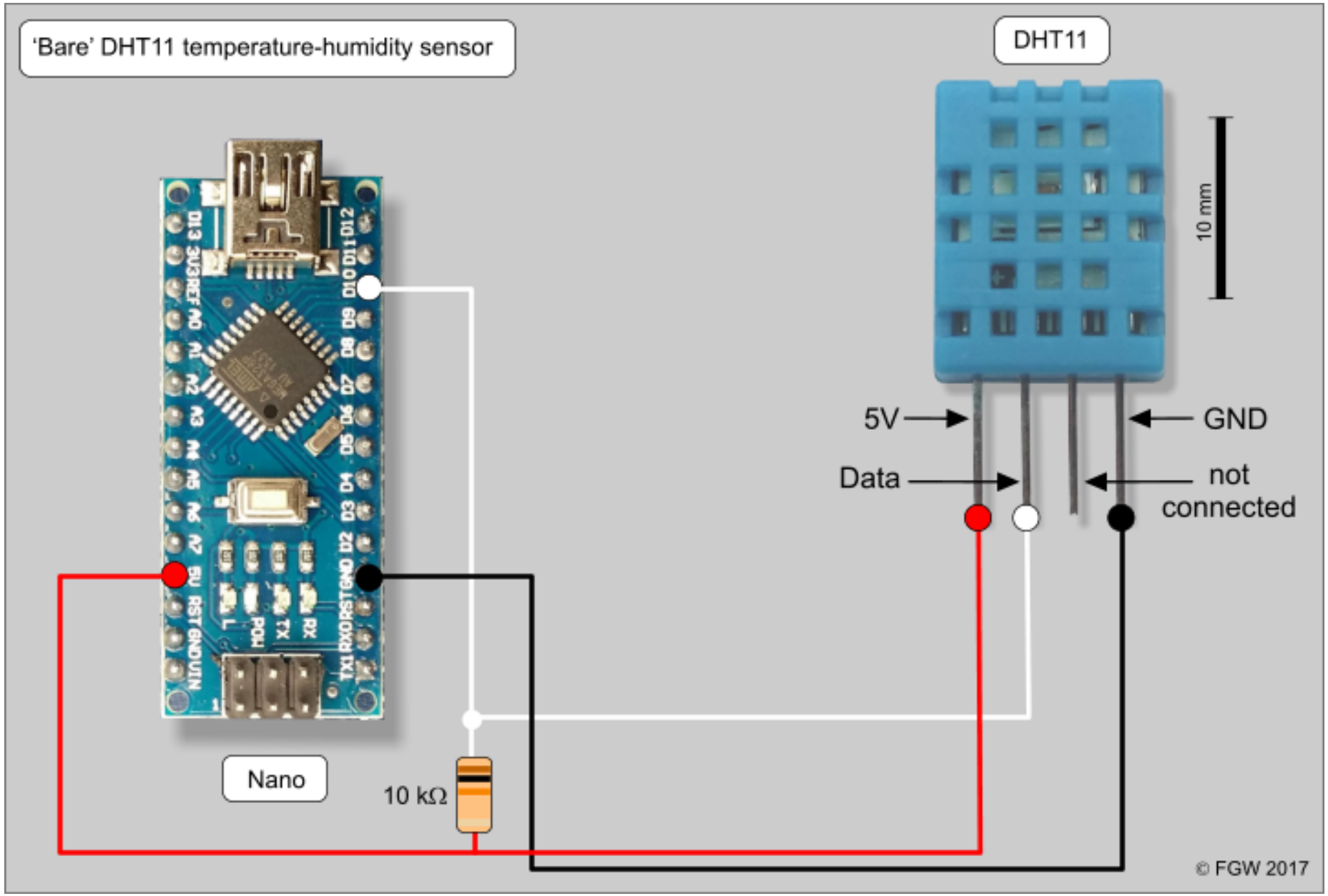

Absolute MAX per pin 12mA
recommended 6mA
WS2812 LED
LoRa (433 MHz) Antenna
(868/915 MHz) LoRa / Sigfox antenna port
Reset Button
Vin (3.5–5.5V)
GND
3V3
Up to 1.2–A Maximum Load Capability. Output ONLY.
PROGRAM Port
RST
RX0 P0
TX0 P1
P2 RGB_LED
TX1 P3 HS2DATA1 SDDATA1 HSPIHD
RX1 P4 HS2CMD SDCMD HSPICS0
CLK HS1DATA6
MOSI
MISO
P8 SDDATA0 HSPIWP
SDA P9 HS2DATA2 SDDATA2 HSPIQ
CLK SCL P10 HS2DATA3 SDDATA3 HSPIID
MOSI P11
P12
Connected to LoRa / Sigfox module
WiFi external / internal antenna selection control pin
CLKOUT2 CLKOUT3 CLKOUT1 MTDO VSPICS0 VSPIQ MTDI MTCK VSPIWP VSPIHD
Touch1 Touch0 Touch3 Touch7 Touch2 Touch5 Touch4
RTCIO11 RTCIO10 RTCIO13 RTCIO17 RTCIO12 RTCIO15 RTCIO14
ADC2_1 ADC2_0 ADC2_3 ADC2_7 ADC2_2 ADC2_5 ADC2_4
U0RXD U0TXD U0CTS U0RTS
EMACRXD2 EMACTXCLK EMACTXER EMACRXD3 EMACRXCLK EMACRXDV EMACTXD0 EMACTXD3 EMACRXER EMACTXD1 EMACTXEN
ChipPU GPIO3 GPIO1 GPIO0 GPIO4 GPIO15 GPIO5 GPIO27 GPIO19 GPIO2 GPIO12 GPIO13 GPIO22 GPIO21
9 40 41 23 24 21 34 16 38 22 18 20 39 42
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
MISO
WiFi / Bluetooth External Antenna Connector
pycom
Hack your LoPy4
Connect to a 10nF capacitor to enable Touch Pin function
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 + 3V3
1-3 sec Safe boot, latest firmware is selected
4-6 sec Safe boot, previous user update selected
7-9 sec Safe boot, the factory firmware is selected
Internal Functions
36 GPIO23 VSPIID HS1STROBE LoRa / Sigfox Interrupt
27 GPIO18 EMACCO180 U2TXD HS1DATA5 LoRa / Sigfox Select
04/07/18

PWM Duty cycle


GND
3V3
DATA
R1
103


VCC
DATA
NC
GND


'Bare' DHT11 temperature-humidity sensor
DHT11
10 mm
5V
GND
Data
not connected
Nano
10 kΩ
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