

GENERAL

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Parameters

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[MEAM.Design - ESP32](#) - Board Pinout & Functionality

Nice intro on ESP32 pins: <https://www.instructables.com/id/ESP32-Internal-Details-and-Pinout/>

ESP32 Pico Kit

Top Side Pins of Pico Kit

D1	Internal Flash, Don't use
D3	Internal Flash, Don't use
CLK	Internal Flash, Don't use
21 / VSPI HD	
22 / VSPI WP	
19 / VSPI Q	
23 / VSPI D	
18 / VSPI CLK	
5 / VSPI CS0	Boot strap pin, must be high on boot
10 / TXD1	
9 / RXD1	
RX0 / GPIO3	used for USB Serial.
TX0 / GPIO1	used for USB Serial.
35 / ADC1 CH7	No output driver. No pullup/pulldown. Can use input only.
34 / ADC1 CH6	No output driver. No pullup/pulldown. Can use input only.
38 / ADC1 CH2	No output driver. No pullup/pulldown. Can use input only.
37 / ADC1 CH1	No output driver. No pullup/pulldown. Can use input only.
EN	Drive low to reset chip
GND / Touch1 / ADC1 CH0	Ground
3V3	Both 3.3V source if USB powered or externally supplied 3.3V



Bottom Side Pins of Pico KIT

CS	Internal Flash, Don't use
D0	Internal Flash, Don't use
D2	Internal Flash, Don't use
VP / GPIO36 / ADC1 CH0	No output driver on this pin. No pullup/pulldown. Can use input only.
VN / GPIO39 / ADC1 CH3	No output driver on this pin. No pullup/pulldown. Can use input only.
25 / DAC_1 / ADC2 CH8	Digital to Analog Converter (can't use ADC2 with WIFI)
26 / DAC_2 / ADC2 CH9	Digital to Analog Converter (can't use ADC2 with WIFI)
32 / ADC1 CH4 / TOUCH9	
33 / ADC1 CH5 / TOUCH8	
27 / ADC2 CH7 / TOUCH7	(can't use ADC2 with WIFI)
14 / ADC2 CH6 / TOUCH6/ SPI CLK	(can't use ADC2 with WIFI)
12 / ADC2 CH5 / TOUCH5 / SPI MISO	Boot strap pin, must be low on boot (can't use ADC2 with WIFI)
13 / ADC2 CH4 / TOUCH4 / SPI MOSI	Used for USB Serial. (can't use ADC with WIFI)
15 / ADC2 CH3 / TOUCH3 / SPI SS	Used for USB Serial. Boot strap pin, high on boot (can't use ADC2 with WIFI)
2 / ADC2 CH2 / TOUCH2	Boot strap pin, default low on boot (can't use ADC2 with WIFI)
4 / ADC2 CH0 / TOUCH0	(can't use ADC2 with WIFI)
0 / ADC2 CH1 / TOUCH1	IO0 button, boot strap pin, must be high on boot (can't use ADC2 with WIFI)
3v3	Both 3.3V source if USB powered or externally supplied 3.3V
GND	Ground
5V	5V source if powered from USB or power-in: 5V to 12V