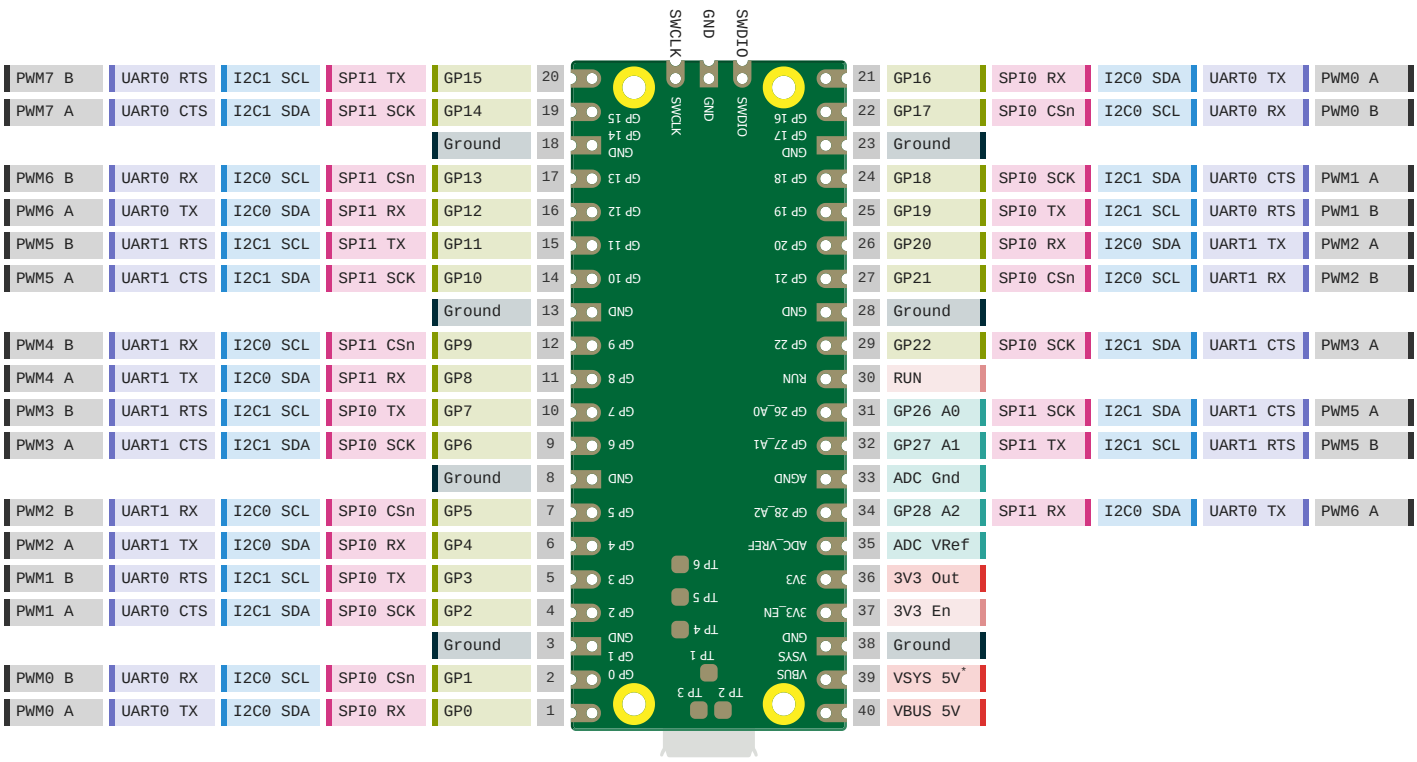
Raspberry Pi Pico Pinout



Pin	Function	Notes
VSYS	System voltage in/out	5V *out* when powered by USB (diode to VBUS), 1.8V to 5.5V *in* if powered externally
3V3 Out	Chip 3V3 supply	Can be used to power external circuitry, recommended to keep the load less than 300mA
GP23	RT6150B-33GQW Power-Select	LOW (default) for high efficiency (PFM) HIGH for improved ripple (PWM)
GP24	VBUS Sense	Detect USB power or VBUS pin
GP25	User LED	
GP29 / A3	VSYS Sense	Read VSYS/3 through resistor divider and FET Q1
A4	Temperature	Read onboard temperature sensor
TP1	Ground	close coupled ground for differential USB signals
TP2	USB DM	USB Data Negative pin
TP3	USB DP	USB Data Positive pin
TP4	GPIO23/SMPS PS Pin	Marked do not use in datasheet
TP5	GPIO25/LED	Not recommended to be used in datasheet can only be used as an output with special care
TP6	BOOTSEL	Short low at power-up to boot into BOOTSEL

pico.pinout.xyz - This interactive, accessible & beautiful GPIO pinout and pin function guide for the Raspberry Pi Pico is maintained by @gadgetoid