4x4 keypad

Switches: SW1, SW5, SW12, SW13, SW2, SW6, SW11, SW14, SW3, SW7, SW10, SW15, SW4, SW8, SW9, SW16

Labels: ROW1, ROW2, ROW3, ROW4, COL1, COL2, COL3, COL4

U1 PICO

Pin	Signal		Pin	Signal
1	GP0_SPI0RX_I2C0SDA_UART0TX		40	VBUS
2	GP1_SPI0CSn_I2C0SCL_UART0RX		39	VSYS
3	GND		38	GND
4	GP2_SPI0SCK_I2C1SDA		37	3V3_EN
5	GP3_SPI0TX_I2C1SCL		36	3V3(OUT)
6	GP4_SPI0RX_I2C0SDA_UART1TX		35	ADC_VREF
7	GP5_SPI0CSn_I2C0SCL_UART1RX		34	GP28_ADC2
8	GND		33	GND_AGND
9	GP6_SPI0SCK_I2C1SDA		32	GP27_ADC1_I2C1SCL
10	GP7_SPI0TX_I2C1SCL		31	GP26_ADC0_I2C1SDA
11	GP8_SPI1RX_I2C0SDA_UART1TX		30	RUN
12	GP9_SPI1CSn_I2C0SCL_UART1RX		29	GP22
13	GND		28	GND
14	GP10_SPI1SCK_I2C1SDA		27	GP21_I2C0SCL
15	GP11_SPI1TX_I2C1SCL		26	GP20_I2C0SDA
16	GP12_SPI1RX_I2C0SDA_UART0TX		25	GP19_SPI0TX_I2C1SCL
17	GP13_SPI1CSn_I2C0SCL_UART0RX		24	GP18_SPI0SCK_I2C1SDA
18	GND		23	GND
19	GP14_SPI1SCK_I2C1SDA		22	GP17_SPI0CSn_UART0TX
20	GP15_SPI1TX_I2C1SCL		21	GP16_SPI0RX_UART0RX

Test points: TP1, TP2, TP3, TP4, TP5, TP6

Input labels: COL1, COL2, ROW1, ROW2, COL3, ROW3, COL4, ROW4, ENC3SW, ENC1SW, ENC1B, ENC1A, ENC4B, ENC4A, ENC5A, ENC5B

Output labels: GND, RADIOBERRY_SCL, RADIOBERRY_SDA, ENC2SW, ENC4SW, ENC5SW, ENC2B, ENC2A, ENC3A, ENC3B

Encoders

+3.3V

U6 ENCODER1, U5 ENCODER2, U4 ENCODER3, U3 ENCODER4, U2 ENCODER5

Encoder pins: B, C, A, D, E

Signals: ENC1B, ENC1A, ENC2B, ENC2A, ENC3B, ENC3A, ENC4B, ENC4A, ENC5B, ENC5A, ENC1SW, ENC2SW, ENC3SW, ENC4SW, ENC5SW

GND

Schematic	Schematic1	Create at	2025-07-21
		Update at	2025-07-21
Board	Board1	Page	P1
Drawn			
Reviewed		Radioberry	
	Version	Size	Page 1 Total 1
EasyEDA	V1.0	A4	EasyEDA.com