

TOUCH SENSING IC

U2

9 VDD KEY11/GP09 16 R1 10k KEY11

12 nRESET KEY10/GP08 17 R2 10k KEY10

13 NC KEY9/GP07 18 KEY9

15 nCHANGE KEY8/GP06 19 KEY8

11 SDA KEY7/GP05 20 KEY7

14 SCL KEY6/GP04 1 KEY6

10 MODE KEY5/GP03 2 KEY5

8 VSS KEY4/GP02 3 KEY4

21 EP KEY3/GP01 4 R9 10k KEY3

KEY2/GP00 5 R10 10k WHEEL2

KEY1 6 R11 10k WHEEL1

KEY0 7 R12 10k WHEEL0

AT42QT2120

+5V

C1

C

nCHANGE

I2C_SDA

I2C_SCL

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STACKING CONNECTOR

Diagram illustrating the pin connections for the **STACKING CONNECTOR** (U1).

The connector is labeled **CON_STACK_9**.

Pin connections:

- Pin 9: +5V
- Pin 8: I2C_SCL
- Pin 7: I2C_SDA
- Pin 6: nCHANGE
- Pin 5: LED_CAT
- Pin 4: LED_CAT
- Pin 3: (unlabeled)
- Pin 2: FIX2
- Pin 1: FIX1

KEYPAD LEDs

KEY8
KEY5
KEY4
KEY10
KEY7
KEY6

LED_CAT

D1 LED 1
D2 LED 2
D3 LED 1
D4 LED 2
D5 LED 1
D6 LED 2
D7 LED 1
D8 LED 2
D9 LED 1
D10 LED 2
D11 LED 1
D12 LED 2
D13 LED 1
D14 LED 2
D15 LED 1
D16 LED 2

R13 150
R14 150
R15 150
R16 150
R17 300
R18 300

KEYPAD

KEY9 P1

KEY11 P2

KEY3 P3

LED_CAT P4

WHEEL2 1

WHEEL1 2

WHEEL0 3

K1

CONN_3