ABCD

1 2 3 4 5 6

C CVV

3.3+V

5+DS1

+5V WC1602A

2

+5V

D NGD NGU4 ESP-01v090

+3.3V

8

4

5

6 5 4 E R/W 3 DDVVO 3

2

R\_POT\_TRIM RV1

1 3 UTXD GND V

3.3+1 TBRS GND

5 7 2 CH\_PD RST VCC GPIO2 GPIO0 URXD 4

l leC\_yrettaB6

R30 8

R

7 8 9

D0 D1 D2 C2CP

GND

GND

D NGSCL

SDA 1 4 3 2 +3.3V +3.3V D11 C3A1 NIV3V3SDI SCK DDV5 CS LDAC AferV6

C1CGND

1 2 3 4 5 6

V5+GND

D13

+3.3VCGND GND

A0 9

DNG6

GND

GND

h suP\_WS3

WSh

suP\_WS4 WSD9

R24R

D2 GND +3.3V

tx1

3 R\_ONU\_oniudrAD41 2 X1 X2 D5D6D7

1 +5V

R28

D0D1 D215 16 17

D0/RX D1/TX RESET 3

rst

LED(+) LED(-) rst1

R Ah suP\_WSSSV15

316

18 19

D2 D3 IOREF 2

VVR15 5 WSR 1

1 2 3 SCL SDA GND V+ ALERT ADD0 D8

D9

6 5 4 BCD

Date: KiCad E.D.A. kicad (5.0.0-3-g5ebb6b6)

8 CCTABU6AREF 30

DS1307+ DNG4

SDA SCL 31 32

3R 3RD4 SCL SDA SDA D3D4D5D6D7D8D9

D10

D11

D12

D13

D6D7

D2D1D0D5D4D3D0D1D2D3D4D5D6D7

6 5 SCL SQW/OUT 7

20 21 22 23 24 25 26 27 28

D5 D6 D7 D8 D9 D10 D11 D12 D13 DNG9

21

12345678

1

2 3

Y1

t srQ1

10 11

D3 BC548

Crystal

12 13 14 D4 D5 D6 D7 GND

R14R

R32R

A0\_j

rst1 A1 10

A1\_j

SW6 +3.3VA2 A2A3SCL D NGA3 A4/SDA A5/SCL 11

12 13 14

GND

7 J+5V

A4A5

GND

3 0x10\_nnoC3 21+5V

+5V

SW\_Push

A4

A5

SDA

3 0x10\_nnoC2

JA0 9 JD2D3 D83 0x10\_nnoC3

21A1

3 0x10\_nnoC1

1JD3D8

A1 A0DNG7

3

A0\_j A1\_j 213

21+5V

U7 TMP102

GND

R R

R22 R23 1 2 3 0 1JR1 R

D2 LED

R2 R

D3 LED

R3 R

D4 LED

R4 R

D5 LED

R5 R

D6 LED

R6 R

D7 LED

R7 R

D8 LED

R8 R

tx1

R29 J4R

U2

1 2 3

Conn\_01x03

KCSC02-107

A

BC D

DP

1 Q42

BC548 31 Q22

BC548 31 2

3

+3.3V

V 3.3+3 D3

3

R R27 J5 3 Conn\_01x03

2A1 2

R\_POT\_TRIM RV2

A0

2

R\_POT\_TRIM RV3 1

1GND

GND R R R R R R

3

+5V

21R10R R16 R17 R18 R19 R20 R21 D1 LED

+3.3V

7 6 4

A B F C EA

BG

+5V

D NGC

D

DP 1 E 10 5

G DP CC 8

GND

GND 2 D Y1Y2Y3

9

F CC 3 X1X2X31U1

2U3

KCSC02-107

+5V

JOYSTICK\_BUTTON

tx1D2 3GND

45J3Conn\_01x06 6 U53 0x10\_nnoC6

J1

3RR

7 6 A B D11

MCP4921-EP SW1 SW2

D13D4VoutA 8D5

1 Q3CC 8

2

3BC548

GND F 4

C EG

12 J8Conn\_01x02 1 E 10 5

G DP Conn\_01x03

SSVA7

GND

SCL

SDA

D NG2

D CC 3

GND

9

F R

R25

R26 R9R

A2

2 AA3

3 AD10

D12

SW1 SW\_SPDT

R12

R GND

1

R 2

3

GND

SW2 SW\_SPDT+5V

1D4

4 DIN DDVDOUT SSVRGB GND2

D9WS2812B

J1Conn\_01x08

3

Sheet: / File: Shield STM8 - Núcleo.sch ***Title:***

Size: A4

**Rev:** Id: 1/1