Data Science Africa

arm
MBED
Enabled

mbed-HDK

LoRa SX1276 Shield

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SX1276IMLTRT

RXTX_RF_MOD

+3.3V

C35
100nF

C34
100nF

C30
100nF

+3.3V

+3.3V

+3.3V

C33
100nF

C31
100nF

C32
47pF

SX1276_NRST

32MHz
Q1

C29
15pF

C28
15pF

SPI_SCK
SPI_MOSI
SPI_MISO
SX1276_NCS

DIO0
DIO1
DIO2
DIO3
DIO4
DIO5

U2
SX1276IMLTRT

Pin	Signal
2	VR_ANA
3	VBAT_ANA
4	VR_DIG
14	VBAT_DIG
24	VBAT_RF
15*4	GND
7	RESET
5	XTA
6	XTB
16	SCK
18	MOSI
17	MISO
19	NSS
8	DIO0
9	DIO1/DCLK
10	DIO2/DATA
11	DIO3
12	DIO4
13	DIO5

Signal	Pin
RXTX/RF_MOD	20
RFI_LF	1
RFO_LF	28
VR_PA	25
RFO_HF	22
RFI_HF	21
PA_BOOST	27

TP1

C20 2.7pF
C22

L12 18nH
C27 2.2pF

C17 4.7pF
C18 15nH
L8 0R
L9 12nH
L10 0R
C24 4.7pF
L11 0R
C19 6.8pF
C21 6.8pF
C23 DNF
C25 DNF
C26 DNF

RF
GND1*2
GND
CON3

L3 82nH
L2 33nH

C2 10nF
C3 47pF
C6 47pF

C10 12pF
C12 DNF

C8 33pF
L4 10nH
L5 6.2nH
L6 0R
C14 4.7pF
L7 0R
C1 2.2pF
C7 DNF
C9 4.7pF
C11 1.8pF
C13 DNF
C15 DNF
C16 DNF

L1 6.8nH

RF
GND1*2
GND
CON4

mbed-HDK

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