U2_RXD R1 U2_TX_ON 120
U2_TXD R2 120

U1
1 R0 VCC 8 DC3.3V
2 RE B 7 B1 C1 104
3 DE A 6 A1
4 DI GND 5
RS485

Vin D2 F1 50mA LMBR140FT1G

U2 LP2980AIM5-3.3
1 VIN VOUT 5 DC3.3V
GND ON/OFF NC
2 3 4
C2 10uF/16V C3 104 C4 1uF C5 104

A1 M1 MCB0805 A
2 1
U3 V30ML D3 PESD12VL2
B1 M2 MCB0805 B
3

P1
Vin 1
GND 2
A 3
B 4

DC3.3V
U4A 2904
8
2 − 1 V_BAT
3 +
4
TEMP_1 R5 100K
C9 10nF D1 MM3Z5V1 R6 10K

DC3.3V
C6 104 C7 104

P3
1 DC3.3V
2 GND
3 SWDIO
4 SWCLK
Header 4

P2
DC3.3V 1
GND 2
TEMP_1 3
I2C1_SDA 4
I2C1_SCL 5
Header 5

DC3.3V
R10 100K
RESET
C10 Cap 100pF

U5 STM32L031F4/6
1 BOOT0 PA14 20 SWCLK R7 10k
2 PC14-OSC32_IN PA13 19 SWDIO
3 PC15-OSC32_OUT PA10 18 I2C1_SDA R9 10k
4 NRST PA9 17 I2C1_SCL DC3.3V
5 VDDA VDD 16 DC3.3V
6 PA0-CK_IN VSS 15 GND
7 PA1 PB1 14
8 PA2 PA7 13
9 PA3 PA6 12
10 PA4 PA5 11
R8 10k
RESET
DC3.3V
V_BAT
U2_TXD
U2_RXD
U2_TX_ON

R12 10K I2C1_SCL
R11 10K I2C1_SDA
DC3.3V

Title PCBT002
Size: A3 Num
Date: 2019/3/4
File: D:\SOWAY\

D2 F1 P3

C2

U2

C5 R8 R10 C10 R7 R9 C7

R12 R11

U5

C3

C6

C4

P1 P2

PCBT004

U4

V1.1

D1

C1

C9

D3

U3

M1

R6

U1

R5

R2

M2

R1

Item #	Quantity	#Column Name Error:Note	Designator	Description	Footprint	Comment	LibRef
1	5		C1, C3, C5, C6, C7	Capacitor	0603	104	Cap
2	1		C2	Capacitor	3216	10uF/16V	CAPACITOR
3	1		C4	Capacitor	0603	1uF	CAP
4	1		C9	Capacitor	0603	10nF	CAP
5	1		C10	Capacitor	0603	Cap	Cap
6	1		D1	Zener Diode	D-0805	MM3Z5V1	D Zener
7	1		D2	Default Diode	D-1206	LMBR140FT1G	Diode
8	1		D3		SOT-23-3	PESD12VL2	TVS
9	1		F1	Fuse	1206	50mA	Fuse 1
10	2		M1, M2	magnetic bead	0805	MCB0805	MAGNETIC BEAD
11	1		P1	Header, 4-Pin, Right Angle	HDR1X4		Header 4H
12	1		P2	Header, 5-Pin	HDR1X5	Header 5	Header 5
13	1		P3	Header, 4-Pin	MHDR1X4	Header 4	Header 4
14	2		R1, R2		0603	120	RES1
15	2		R5, R10	Resistor	0603	100K	Res1
16	6		R6, R7, R8, R9, R11, R12	Resistor	0603	10K	Res1
17	1		U1		SO-8	RS485	RS485
18	1		U2		SOT-23-5	LP2980AIM5-3.3	LP2980AIM5-3.3
19	1		U3		0805	V30ML	V30ML
20	1		U4		MSOP-8	2904	ADA4665
21	1		U5	STM32L031F4/6	TSSOP20	STM32L031F4/6	STM32L031F4/6