C21　　　　　　　　　　　C22

GND
GND
C3O　　R30　　　　R32
GND　Q16　R11　Q17
C2O　Q11　　　R12
5V　　　　　　Q12　R3
C1O　　　　　　　　R3
GND　Q1　R31　Q7
C3OUT3
5V
C3OUT2
GND

R43
R41　　R47
　　Q19
　　R45

RS485

R60
R59

USART

C26
C25　C41　C28
　　　　　C27

Q4

Q22
R37　　　R52

R48
R29　　　　　L2
R49

R56
R57

U3
C29

R16 R18 R54

C5　　C40　　C4

VBAT
GND B- A+

C3OUT1
5V
C2OUT3
GND
C2OUT2
5V
C2OUT1
GND
C1OUT3
5V
C1OUT2
GND
C1OUT1
5V

GND TXD RXD

Comment	Description	Designator	Footprint	LibRef	Quantity
22pF	Capacitor	C1, C2	0603c	CAP	2
0.1uF	Capacitor	C3, C8, C11, C12, C13, C14, C29, C35	0603c	CAP	8
22uF/10V/网关不焊接	Capacitor	C4, C5, C40	1206C	CAP	3
1000uF/6.3V/8*12	Polarized Capacitor (Surface Mount)	C6	8*12	Cap Pol3	1
2.2uF	Capacitor	C7, C19	0603c	CAP	2
33pF	Capacitor	C9	0603C	CAP	1
NC	Capacitor	C10, C23	0603C	Cap	2
10pF	Capacitor	C15, C20, C24	0603c	CAP	3
10pF/NC	Capacitor	C16, C17, C18	0603C	CAP	3
22uF/10V	Capacitor	C21, C22, C27, C28, C30, C31	1206C	CAP	6
0.1uF/25V	Capacitor	C25, C26, C33, C34	0603C	CAP	4
10uF/25V	C, Capacitor	C32, C36, C41, C89	0603C	C, CAP	4
0.01uF	C	C90, C199	0603C	C	2
SMAJ12CA		D1	SMA	DIODE_SCHOTTKY_0	1
RB751V40T1	Default Diode	D2	SOD323	Diode	1
DIODE_SCHOTTKY_0		D3	LL-34(D1206)	DIODE_SCHOTTKY_0	1
SMAJ6.5CA	Schottky Diode	D6, D8	SMA	DIODE S	2
SMD0805P300	Fuse	F2	0805R	Fuse 2	1
JWWBW2012M600HT		FB6	0805CZ	FB	1
IPEX	IPEX	J1, J5	RF-UFL	ANT	2
SRP4020TA-3R3M		L1, L2	CD_4*4	INDUCTOR_1	2
LED		LED3	0603LED	LED	1
E22-400T30S		M1, M2	E22-400T30S	E22-400T30S	2
SBatery		MS621FE	MS621FE	SBatery	1
Header 4	Header, 4-Pin	P1, P5	4X2.54MMZ	Header 4	2
Header 7X2/网关不焊接	Header, 7-Pin, Dual row	P2, P4	14X2.54MMZ	Header 7X2	2
Header 4	Header, 4-Pin	P3	HDR1X4	Header 4	1
Header 2	Header, 2-Pin	P6	2X2.54MMZ	Header 2	1
Si2369DS/网关不焊接		Q1, Q11, Q16	SOT23	MOSFET P_1	3
MMBT3904/网关不焊接		Q2, Q5, Q6, Q7, Q8, Q9, Q10, Q12, Q13, Q14, Q15, Q17	SOT23-3	NPN	12
Si2369DS	NMOSFET	Q3	sot23-3	NCE4060K	1
S8050		Q4	SOT23	2N1069_1	1
MMBT3904		Q18, Q19, Q20, Q21, Q23	SOT23-3	NPN	5
SI2342DS		Q22	SOT23	MOSFET P_1	1
4.7K/网关不焊接		R1, R2, R4, R5, R6, R7, R9, R10, R13, R19, R20, R21, R22, R24, R26, R27, R28, R36	0603R	RES1	18
10k/网关不焊接		R3, R11, R12, R30, R31, R32, R56, R57	0603R	RES1	8
1K	R, Resistor	R8, R37, R38, R55, R58, R218	0603R	R, RES1, Res2	6
33K/1%	Resistor	R14	0603R	Res3	1
10K	Resistor	R15, R42, R43, R52, R54	0603R	RES1, Res3	5
4.7K		R16, R40, R41, R44, R45, R46, R47, R59, R60, R61, R62	0603R	RES1	11
0	Resistor	R17	0603R	Res2	1
47K		R18	0603R	RES1	1
10R		R23, R25, R39	0603R	RES1	3
33.2K/1%		R29	0603R	RES1	1
5.1K/1%	Resistor	R33	0603R	Res3	1
1MR	Resistor	R34	0603R	Res3	1
100K	Resistor	R35, R137	0603R	RES2, Res3	2
10K/1%		R48, R49, R51, R53	0603R	RES1	4
54.9K/1%		R50	0603R	RES1	1
100	R	R83	0603R	R	1
10		R139, R140	1206R	RES2	2
SW DIP-4	DIP Switch, 4 Position, SPST	S1	SW_SMT_8	SW DIP-4	1
SW DIP-2	DIP Switch, 2 Position, SPST	S2	SW_SMT_4	SW DIP-2	1
microsim		SIM1	Nano SIM	microsim	1
STM32F405RGT6	ARM Cortex-M4 32-bit MCU+FPU, 210 DMIPS, 1024 kB Flash, 192 kB Internal RAM, 51 I/Os, 64-pin LQFP, -40 to 85 degC, Tray	U1	LQFP-64	STM32F405RGT6	1
SIM7080G		U2	SIM868	SIM868E/SIM868	1
TPS562201		U3, U5	SOT-23-6	TPS562201	2
SMF05C_1	TVS	U4	SC70-6L	SMF05C_1	1
SAFFB1G56KB0F0A		U6	SAFFB1G56KB0F0A	SAFFB1G56KB0FA	1
THVD1500		U34	so-8	SN65HVD06D	1
8MHz	Crystal Oscillator	Y1	CRAY_5032	XTAL	1
32.768K	Crystal Oscillato	Y5	32.768K	XTAL	1