U1A STM32F429ZGT6
U1B STM32F429ZGT6
U1C STM32F429ZGT6

U4 AMS1117-3.3V
U5 MCP2562-E/SN
U6 MCP2562-E/SN
U2 LM2596S-ADJ
U3 LM2596S-ADJ

S1 SW DIP-2
S2 SW-PB

Header 5, Header 8, Header 8X2, Header 7X2, Header 10X2H

P6 Header 5 — SWDIO, SWCLK, RST, GND
P1 USART1 — USART1_RX, USART1_TX
P2 USART2 — USART2_RX, USART2_TX
P3 Header 5 — USART3_RX, USART3_TX, USART3_CK
P4 USART3 — UART4_RX, UART4_TX
P5 USART3 — UART5_RX, UART5_TX
J2 USART3 — UART7_RX, UART7_TX

LED_RED, LED_BLUE

CAN1, CAN2

VCC_24V, VCC_5V, VDD_3V3, VDDA, VCC_ADJ

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P15

P4RXTXG
P5RXTXG

J2

P4
GND
RST
SWCLK

P10
P11
P12

CAN2_H
CAN2_L

U2 X1 R1

BOOT1
BOOT0

V1.0
夏宇彬

USART1_TX
USART1_RX

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Comment	Description	Designator	Footprint	LibRef	Quantity
470µF 50V	Polarized Capacitor (Radial)	C1, C5	RB-.2/.4	Cap Pol1	2
0.1µF	Capacitor	C2, C6, C10, C12, C13, C14, C15, C17, C18, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38	0805	Cap	23
1µF	Capacitor	C3, C7	0805	Cap	2
220µF 35V	Polarized Capacitor (Radial)	C4, C8	RB-.2/.4	Cap Pol1	2
10µF	Polarized Capacitor (Radial)	C9, C11	0805	Cap Pol1	2
20pF	Capacitor	C19, C20	0805	Cap	2
2.2µF	Capacitor	C21, C22	0805	Cap	2
12pF	Capcitor	C23, C24	0805	CAP	2
SS54	Schottky Rectifier	D1, D3	DO-214AA	Diode 11DQ03	2
LED_RED	Typical BLUE SiC LED	D2, D4, D5	1206_LED	LED3	3
LED_BLUE	Typical BLUE SiC LED	D6, D7, D8, D9	1206_LED	LED3	4
Header 10X2H	Header, 10-Pin, Dual row, Right Angle	J1	HDR2X10	Header 10X2H	1
USART3	Header, 4-Pin	J2, P4, P5	HDR1X4	Header 4	3
470	Inductor	L1, L2	12*12*7贴片电感	Inductor	2
USART1	Header, 4-Pin	P1	HDR1X4	Header 4	1
USART2	Header, 4-Pin	P2	HDR1X4	Header 4	1
Header 5	Header, 5-Pin	P3, P6	HDR1X5	Header 5	2
CAN1	Header, 2-Pin	P7, P8, P9, P10, P11, P12	HDR1X2	Header 2	6
CAN2	Header, 2-Pin	P13	HDR1X2	Header 2	1
Header 7X2	Header, 7-Pin, Dual row	P14	HDR2X7	Header 7X2	1
Header 8X2	Header, 8-Pin, Dual row	P15, P17, P19	HDR2X8	Header 8X2	3
Header 8	Header, 8-Pin	P16, P18	HDR1X8	Header 8	2
10K	Tapped Resistor	R1, R5	3296	Res Tap	2
330	Resistor	R2, R6	0805	Res2	2
1K	Resistor	R3, R7, R19	0805	Res2	3
0R	Resistor	R4, R8, R9, R10, R11	0805	Res2	5
10K	Resistor	R12, R16, R17	0805	Res2	3
9K	Resistor	R18	0805	Res2	1
1M	Resistor	R20	0805	Res2	1
120R	Resistor	R23, R24	0805	Res2	2
100R	Resistor	R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64	0805	Res2	40
500R	Resistor	R65, R66, R67, R68, R69	0805	Res2	5
SW DIP-2	DIP Switch, 2 Position, SPST	S1	DIP-4	SW DIP-2	1
SW-PB	Switch	S2	3*6 开关	SW-PB	1
STM32F429ZGT6	ARM Cortex-M4 32-bit MCU+FPU, 225 DMIPS, 1024 kB Flash, 256 kB Internal RAM, 114 I/Os, 144-pin LQFP, -40 to 85 degC, Tray	U1	STM-LQFP144_N	STM32F429ZGT6	1
LM2596S-ADJ	CI-LM2576S-5.0	U2, U3	TO-263	LM2576S-5.0	2
AMS1117-3.3V		U4	SOT223	11	1
MCP2562-E/SN		U5, U6	SO-8	MCP2562-E/MF	2
XT60	Header, 2-Pin	X1, X2	XT60PB	Header 2	2
XT30	Header, 2-Pin	X3, X4, X5, X6, X7, X8	XT30UPB	Header 2	6
8MHz	Crystal Oscillator	Y1	XTAL	XTAL	1
32.768k	Crystal 8MHz PLUG	Y2	MHDR1X2	CRYSTAL	1