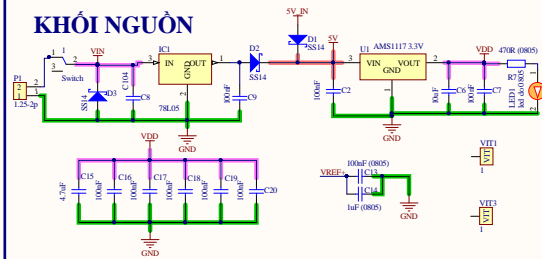
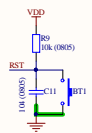


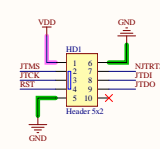
KHỐI NGUỒN



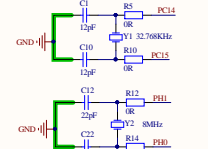
KHỐI RESET



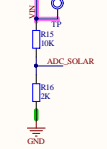
KHỐI DEBUG



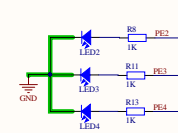
KHỐI DAO ĐỘNG



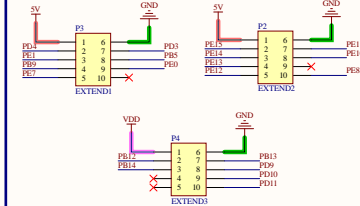
PIN LEVEL



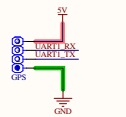
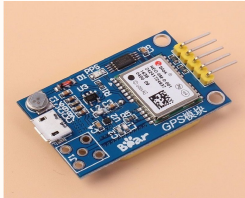
USER LED



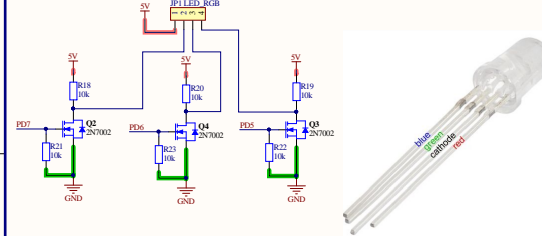
EXTEND



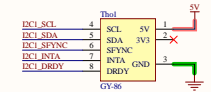
GPS NEO 8M



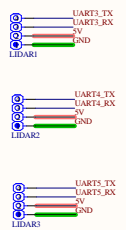
RGB LED



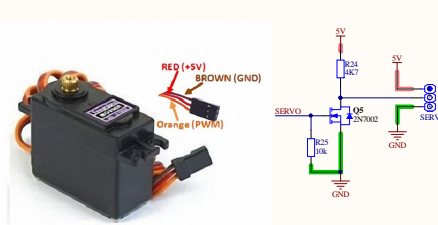
GY-86



TF MINI LIDAR



SERVO



ĐỒ ÁN TỐT NGHIỆP

THIẾT KẾ, CHẾ TẠO QUACOPTER

T.Nhiệm	Họ và tên	Ký	Ngày	BẢN VẼ NGUYÊN LÝ	Tỷ lệ: 1:1	Khối lượng:
Thiết kế	Nguyễn Ích Thanh Tú Trần Vũ Long				Tờ số : 5	Số tờ: 7
Hướng dẫn	TS. Hoàng Văn Thanh				TRƯỜNG ĐHBK - ĐH ĐÀ NẴNG KHOA CƠ KHÍ - LỚP 16C1A	
Duyệt						

Comment	Description	Designator	Footprint	LibRef	Quantity
STM32F407			STM32F407Vet6	STM32F407	1
Switch		1	SW_MSS	Switch	1
Nút Nhấn 2 Chân 3x6x2.5MM SMD	Dán	BT1	Nút Nhấn 2 Chân SMD_N	Nút Nhấn 2 Chân SMD	1
2Khz	Cắm	BZ1	coi xung	Coì xung 2Khz	1
12pF	Dán	C1, C10	tu 0805	Tu 0805 10pF 50V 10%	2
100nF	Dán	C2, C7, C9, C16, C17, C18, C19, C20	tu 0805	Tu 0805 104 50V 10%	8
100nF (0805)	Dán	C3, C13, C23	tu 0805	Tu 0805 220nF 50V 10%	3
2.2uF (0805)	Dán	C4, C5	tu 0805	Tu 0805 220nF 50V 10%	2
10uF	Dán	C6	tu 0805	Tu 0805 104 50V 10%	1
C104	Dán	C8	tu 0805	Tu 0805 104 50V 10%	1
104 (0805)	Dán	C11	tu 0805	Tu 0805 104 50V 10%	1
22pF	Dán	C12, C22	tu 0805	Tu 0805 10pF 50V 10%	2
1uF (0805)	Dán	C14	tu 0805	Tu 0805 220nF 50V 10%	1
4.7uF	Dán	C15	tu 0805	Tu 0805 104 50V 10%	1
SS14	Dán	D1, D2, D3	DIODE SMD	Diode SS14 (1N5819)	3
IO	Header 1x3	ESC1, ESC2, ESC3, ESC4, SERVO	CON.HDR1X3	CON.HDR1x3	5
IO	Header 1x4	GPS, LIDAR1, LIDAR2, LIDAR3	CON.HDR1X4L	CON.HDR1x4	4
Header 5x2	Header 5x2	HD1	Hed2X5	HED5x2	1
78L05	Dán	IC1	SOT89-150P410X160-3N	78L05	1
LED_RGB	Cắm	JP1	JUMP DON DUC 2.54_4P	Jump Don Duc 2.54_4P	1
led do 0805	Dán	LED1	led 0805	Led 0805 Do	1
LED SMD		LED2	SM-LED-0805-Yellow	LED-SMD-0805	1
LED SMD		LED3	SM-LED-0805-Green	LED-SMD-0805	1
LED SMD		LED4	SM-LED-0805-Blue	LED-SMD-0805	1
NRF24L01		M1	NRF24L01	NRF24L01	1
1.25-2p	Cắm	P1	Header Duc Thang 2p 1.25	Header 1.25-2p	1
EXTEND2	Header, 5-Pin, Dual row	P2	HDR2X5_CEN	Header 5X2A	1
EXTEND1	Header, 5-Pin, Dual row	P3	HDR2X5_CEN	Header 5X2A	1
EXTEND3	Header, 5-Pin, Dual row	P4	HDR2X5_CEN	Header 5X2A	1
2N7002	N-channel Enhancement Mode Field-effect Transistor	Q1, Q2, Q3, Q4, Q5	SOT23-123	2N7002	5
0R (0805)	Dán	R1, R2	tro 0805	Tro 0805 5% 470R	2
0R	Dán	R3, R5, R10, R12, R14	tro 0805	Tro 0805 5% 470R	5
10k	Dán	R4, R15, R17, R18, R19, R20, R21, R22, R23, R25	tro 0805	Tro 0805 1% 10k, Tro 0805 5% 10k	10
10k (0805-1%)	Dán	R6	tro 0805	Tro 0805 1% 10k	1
470R (0805)	Dán	R7	tro 0805	Tro 0805 5% 470R	1
1K	Dán	R8, R11, R13	tro 0805	Tro 0805 5% 470R	3
10k (0805)	Dán	R9	tro 0805	Tro 0805 5% 10k	1
2K	Dán	R16	tro 0805	Tro 0805 5% 10k	1
4K7	Dán	R24	tro 0805	Tro 0805 1% 10k	1
GY-86		Tho1	GY-86	GY-86	1
TP	Test Point	TP1	TP1	TP1	1
AMS1117 3.3V	Dán	U1	SOT223	AMS1117 3.3V	1
1	Oc Vit	VIT1, VIT3	VIT	VIT	2
32.768KHz	Dán	Y1	XT2-32.768KHz-2_V	Thạch anh 8MHz 49S SMD	1
8MHz	Dán	Y2	thạch anh 49s smd	Thạch anh 8MHz 49S SMD	1