



Title		
Size A3	Number	Revision
Date:	5/11/2023	Sheet of
File:	C:\Users\j.baocandoan\SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
16V	Multicell Battery	BATTERY	BAT-2	Battery	1
104	Cảm	C1, C2, C3, C4, C10, C11, C12, C13, C16, C17, C18, C21	tu gom	Tu gom 104 50V	12
10uF	Cảm	C5, C7	tu hoa 4mm	Tu Hoa 10uF 16V 4x7	2
22pF	Cảm	C6, C9	tu gom	Tu gom 22pF 50V	2
16Mhz	Crystal For all Crystal 2pin.	C8	Thach Anh 2 chan cam	Thach Anh 2 chan Cam	1
220uF	Cảm	C14	tu hoa 8mm	Tu Hoa 220uF 35V 8x12	1
220nF	Cảm	C15	tu hoa 8mm	Tu Hoa 220uF 35V 8x12	1
100uF	Cảm	C19, C20	tu hoa 8mm	Tu Hoa 100uF 50V 8x11	2
Diode	Default Diode	D1	DIO-1A	Diode	1
DIODE Zener	Zenner	D2, D3	DIO-2A - LONG	DIODE Zener	2
		GPS NEO 1	GPS NEO 6	Component_1	1
LED 3mm	Cảm	L1	LED-3MM-RED	LED 3mm Do	1
LED 3mm	Cảm	L2	LED-3MM-YELLOW	LED 3mm Vang	1
LED 3mm	Cảm	L3	LED-3MM-BLUE	LED 3mm Xanh Duong	1
LED_5V	Cảm	L4	LED-3MM-RED	LED 3mm Do	1
LED_12V	Cảm	L5	LED-3MM-RED	LED 3mm Do	1
33uH	Cảm	L6, L7	CUON CAM 100uH3A	CUON CAM 470uH DIP	2
		LM1, LM2	LM2596		2
Header2	Header IDC, 2 x 1 Pin Vertical 2.54mm Pitch (Non-Boxed, Male)	LOCK	HDR2	Header2	1
ATMEGA328P-PU	ATMEGA328P-PU; 8 bit Microcontroller AVR 20MHz 1; 32kb Flash; 2kb RAM; I2C SPI 2	MCU1	27_DIP_7.62mm	ATMEGA328P-PU	1
TIP122	Darlington Silicon Power NPN Transistor, 8 Amp, 100 Volts and 65 Watts	Q1	TO220-123	TIP122	1
2N2222	NPN 600mW, ECB	Q2, Q3	TO92-123	2N222	2
1k	Cảm	R3, R4, R12, R14, R16	tro vach 1/4w	Tro Vach 1/4W 5% 1k, Tro Vach 1/4W 5% 1.8k, Tro Vach 1/4W 5% 220R	5
220R	Cảm	R5, R6, R7, R13	tro vach 1/4w	Tro Vach 1/4W 5% 220R	4
10k	Cảm, Cảm	R8, R9, R15	tro vach 1/4w	Tro Vach 1/4W 5% 10k, Tro Vach 1/4W 1% 10k	3
510R	Cảm	R10, R11	tro vach 1/4w	Tro Vach 1/4W 5% 510R	2
Nut Nhan 4 Chan Cam 6x6	Nut Nhan 4 Chan 6x6mm	REQUIRE1, RESET1	Nut Nhan 4 Chan Cam 6x6	Nut Nhan 4 Chan Cam 6x6	2
SIM A7600C		SIM A1	SIM A7600C	SIM A7600C	1
10K	Cảm	T1, T2	Bien Tro Vi Chinh Dung	Bien Tro Tinh Chinh 10K Dung	2