POWER SUPPLY

J1 TYPE-C-31-M-12

VBUS	A4_B9
VBUS	B4_A9
CC1	SBU2 B8
DP1	DN2 B7
DN1	DP2 B6
SBU1	CC2 B5
A5	
A6	

SHIELD S1
SHIELD S2
SHIELD S3
SHIELD S4
GND A1_B12
GND B1_A12

5V
C1 0805 C2 0805
GND

U2 RT9193-33GB
VIN VOUT
EN GND BP
5V 3.3V
C3 103 C4 103 C7 103 C5 103 C6 103
GND

DISPLAY

U1 DM-OLED096-636
VCC_IN 2
SCL 3 PB6
SDA 4 PB7
GND 1
5V
R1 1k R2 1k
GND

LED1 PA3 LED MODE GND
LED2 PA2 LED STATE GND

SENSOR

H2 DHT22
5V PA1
1 2 3 4
GND

H1 HLK LD2410c
Vcc 1
GND 2
OUT 3 PA4
RX 4
TX 5
5V GND

H3 HY SRF05
Vcc 1
Trig 2 PB14
Echo 3 PB15
OUT 4
GND 5
5V GND

CONTROL

SW1 SW
SW2 SW PB9
SW3 SW PB8
SW4 SW PB4
R3 1k RESET 5V
GND

MCU

U4 STM32F103C8T6

	VDDA	9	3.3V
	VDD	24	3.3V
	VDD	36	3.3V
	VDD	48	3.3V
VBAT 1	VBAT		
RESET	NRST		
BOOT0 44	BOOT0		
PA0 10	PA0_WKUP	PB0 18	PB0
PA1 11	PA1	PB1 19	PB1
PA2 12	PA2	PB2 20	BOOT1
PA3 13	PA3	PB3 39	PB3
PA4 14	PA4	PB4 40	PB4
PA5 15	PA5	PB5 41	PB5
PA6 16	PA6	PB6 42	PB6
PA7 17	PA7	PB7 43	PB7
PA8 29	PA8	PB8 45	PB8
PA9 30	PA9	PB9 46	PB9
PA10 31	PA10	PB10 21	PB10
PA11 32	PA11	PB11 22	PB11
PA12 33	PA12	PB12 25	PB12
SWDIO 34	PA13	PB13 26	PB13
SWDCLK 37	PA14	PB14 27	PB14
PA15 38	PA15	PB15 28	PB15
PC13 2	PC13-TAMPER-RTC	PD0 5	PD0
PC14 3	PC14-OSC32_IN	PD1 6	PD1
PC15 4	PC15-OSC32_OUT	PD0_OSC_IN	
		PD1_OSC_OUT	
	VSSA	8	GND
	VSS	23	GND
	VSS	35	GND
	VSS	47	GND

C8 103 X1 4Mhz R4 1k PD0 PD1
C9 103
GND

C10 103 Y1 PC14
C12 103 PC15

J-link OB interface

P1 Header 4
1 3.3V
2 SWDIO
3 SWDCLK
4 GND
C11 103

FUNCTION

PB10 U3 PC817 RL1 Relay 10A/12V
D1 1N4007
Q1 NPN_EBC
5V voi 2
GND

PB1 U5 PC817 RL2 Relay 10A/12V
D2 1N4007
Q2 NPN_EBC
5V voi 1
GND

JP1 PHUN SUONG
voi 1
voi 2
GND

JP2 QUAT
fan
GND

PA7 U6 PC817 RL3 Relay 10A/12V
D3 1N4007
Q3 NPN_EBC
5V fan
GND

Title:	Mạch phun sương
Page Contents:	Sheet1.SchDoc
Drawn By:	Tran Hai
Checked By:	NONE
Size: A3	Number: *	Revision: ver2
Date: 12/22/2024	Time: 5:41:46 AM	Sheet 1 of 2
My company: UTE		
Email: tranhai002456@gmail.com	Phone:0385440231	

Mach
phun suong

Tran Hai

Comment	Description	Designator	Footprint	LibRef	Quantity
0805	Cap SMD	C1, C2	C-0805	C	2
103	Cap SMD	C3, C4, C5, C6, C7, C8, C9, C10, C11, C12	C-0805	C	10
1N4007	Diode 1A	D1, D2, D3	D1A	D1A	3
HLK LD2410c	Cắm	H1	Header 5P DC 2.54	Header 5P 2.54 Duc Cong	1
DHT22	Cắm	H2	XH2.54M-4	Header 4P 2.54 Duc Thang	1
HY SRF05	Cắm	H3	XH2.54M-5	Header 5P 2.54 Duc Thang	1
TYPE-C-31-M-12	USB Connectors 24 Receptacle 1 8.94*7.3mm RoHS	J1	HRO_TYPE-C-31-M-12	TYPE-C-31-M-12	1
PHUN SUONG	Connector 4	JP1	CON4	Con4	1
QUAT	Connector 2	JP2	CON2	Con2	1
LED MODE	LED Single colour Green and Red	LED1	LED-3	LED_THU	1
LED STATE	LED Single colour Green and Red	LED2	LED-3	LED_THU	1
Header 4	Header, 4-Pin	P1	HDR1X4	Header 4	1
NPN_EBC	NPN Transistor	Q1, Q2, Q3	QTO-92	NPN_EBC	3
1k	Resistor 1/4W	R1, R2, R3, R4	SM-1206	R, RES	4
Relay 10A/12V	Relay SPDT,10A - 12VDC 5 Pin	RL1, RL2, RL3	RL_SPDT_10A	Relay 1	3
SW	Switch button 2 pin	SW1, SW2, SW3, SW4	SW2	SW2	4
DM-OLED096-636	0.96â€ 128 X 64 MONOCHROME GRAPHIC OLED DISPLAY MODULE - I2C	U1	MODULE_DM-OLED096-636	DM-OLED096-636	1
RT9193-33GB	Linear Voltage Regulator IC Positive Fixed 1 Output 300mA TSOT-23-5	U2	SOT94P279X129-5N	RT9193-33GB	1
PC817	Single Opto	U3, U5, U6	DIP4/W0.3	PC817	3
STM32F103C8T6	ARM® Cortex®-M3 STM32F1 Microcontroller IC 32-Bit 72MHz 64KB (64K x 8) FLASH 48-LQFP (7x7)	U4	QFP50P900X900X160-48N	STM32F103C8T6	1
4Mhz	Crystal For all Crystal 2pin.	X1	XT2	XT2	1
ABS07-32.768KHZ-T	32.768 kHz Â±20ppm Crystal 12.5pF 70 kOhms 2-SMD, No Lead	Y1	XTAL_ABS07-32.768KHZ-T	ABS07-32.768KHZ-T	1