U1 LM1117-ADJ
IN OUT ADJ
+5
+3.3V
C2 100nF
C3 10uF
C4 10uF
C5 100nF
GND

+3.3V +3.3V
R1 10k
R2 10k
+3.3V
R3 1k
GND
U2
ADDR SCL
ALERT/RDY SDA
GND VDD
AIN0 AIN3
AIN1 AIN2
SCL
SDA
C1 100nF
GND
ADS1115IDGSR
LM35_ADC2
GND

+3.3V
C6 100nF
C7 100nF
C8 100nF
C9 100nF
C10 4.7uF
GND

+5
U3 LM35
LM35_ADC1
GND

+5
U4 LM35
LM35_ADC2
GND

+3.3V
R4 10k
BUT0
SW1 SW
C13 100nF
GND

+3.3V
R5 10k
BUT1
SW2 SW
C14 100nF
GND

IC1
VDD_1 32
VDD_4 19
VDD_3 64
VDD_2 48
VDDA 13

+3.3V
C11 100nF
C12 1uF
GND

VBAT 1
BOOT0 60
GND R6 1k
PA0-WKUP 14
PA1 15
PA2 16
PA3 17
PA4 20
PA5 21
PA6 22
PA7 23
PA8 41
PA9 42
PA10 43
PA11 44
PA12 45
PA13 46
PA14 49
PA15 50

LM35_ADC1
BUT0
BUT1
BUT2
CH340_RXD
CH340_TXD

NRST 7
PD0-OSC_IN 5
PD1_OSC_OUT 6
PD2 54

C15 100nF
B1 Button 3x4x2.5
GND
X1 8Mhz
C16 22pF
C17 22pF
GND

PC0 8
PC1 9
PC2 10
PC3 11
PC4 24
PC5 25
PC6 37
PC7 38
PC8 39
PC9 40
PC10 51
PC11 52
PC12 53

BUT3

PB0 26
PB2 28
PB1 27
PB3 55
PB4 56
PB5 57
PB6 58
PB7 59
PB8 61
PB9 62
PB10 29
PB11 30
PB12 33
PB13 34
PB14 35
PB15 36

LED0
LED1
LED2
SCL
SDA
LED3

PC13-TAMPER-RTC 2
PC14-OSC32_IN 3
PC15-OSC32_OUT 4

VSS_2 47
VSSA 12
VSS_4 18
VSS_1 31
VSS_3 63
GND
STM32F103RCT6

+3.3V
R7 10k
BUT2
SW3 SW
C18 100nF
GND

+3.3V
R8 10k
BUT3
SW4 SW
C19 100nF
GND

USB1
VBUS
D-/DM
D+/DP
ID
GND
USB Micro 5p DIP
+5
D_N
D_P
GND

+3.3V
C21 100nF
GND
U5
VCC TXO
V3 RXI
R232 RTS
UD+ DTR
UD- DCD
RI
DSR
GND CTS
CH340C
CH340_TXD
CH340_RXD
D_P
D_N
GND

+3.3V

R9 1k LED1 LED0 LED
R10 1k LED2 LED1 LED
R11 1k LED3 LED2 LED
R12 1k LED4 LED3 LED

GND +5
C20
1
2
3
4
SCL
SDA
JP4

LCD1
GND
VDD
VSS
RS
RW
EN
D0
D1
D2
D3
D4
D5
D6
D7
A
K
LCD 20x4A

Comment	Description	Designator	Footprint	LibRef	Quantity
Button 3x4x2.5		B1	Button 3x4x2.5	Button 3x4x2.5	1
100nF	Capacitor	C1, C2, C5, C6, C7, C8, C9, C11, C13, C14, C15, C18, C19, C21	CAP_0805	CapSMD	14
10uF	Capacitor	C3, C4	CAP_0805	CapSMD	2
4.7uF	Capacitor	C10	CAP_0805	CapSMD	1
1uF	Capacitor	C12	CAP_0805	CapSMD	1
22pF	Capacitor	C16, C17	CAP_0805	CapSMD	2
JP4	WR-PHD 2.54 mm Angled Socket Header	C20	JP4-C1T	JP4	1
STM32F103RCT6		IC1	STM32F103RCT6	STM32F103RCT6	1
LCD 20x4A	LCD dipslay 20 char, 4 line	LCD1	LCD20X4A	LCD20x4A	1
LED	LED Single colour Green and Red	LED1, LED2, LED3, LED4	LED-3	LED	4
10k	Resistor, Resistor SMD	R1, R2, R4, R5, R7, R8	RES-SMD-0805	Resistor - SMD	6
1k	Resistor, Resistor SMD	R3, R6, R9, R10, R11, R12	RES-SMD-0805	Resistor - SMD	6
SW	Switch button 2 pin	SW1, SW2, SW3, SW4	SW2	SW2	4
LM1117-ADJ	800mA Low-Dropout Linear Regulator	U1	LM1117-SOP	LM1117-ADJ	1
ADS1115IDGSR	Analog to Digital Converters - ADC 16B ADC w/ Int MUX PGA Comp Osc & Ref	U2	VSOP-10_19.6_230_57X12_SMD	IC_ADS1115IDGSR	1
LM35	Teminal	U3, U4	QTO-92	LM35	2
CH340C	USB to serial chip CH340	U5	SO016	CH340C	1
USB Micro 5p DIP	USB Type B	USB1	USB Micro 5p DIP	USB Micro 5p DIP	1
8Mhz	Crystal For all Crystal 2pin.	X1	XTAL 5032 SMD	XT2	1