handles

File: Handles.kicad_sch

motherboard

File: motherboard.kicad_sch

cables

File: cables.kicad_sch

LED1
WP7113ID5V
Components for handle
GND
Red LED with 5V resistor
SW_Push
SW1
GND
J5
95501-2661
GND
GND
LED3
WP7113ID5V
Red LED with 5V resistor
GND

LED5
WP7113ID5V
Components for handle
GND
Red LED with 5V resistor
SW_Push
SW3
GND
J7
95501-2661
GND
GND
LED7
WP7113ID5V
Red LED with 5V resistor
GND

LED2
WP7113ID5V
Components for handle
GND
Red LED with 5V resistor
SW_Push
SW2
GND
J6
95501-2661
GND
GND
LED4
WP7113ID5V
Red LED with 5V resistor
GND

LED6
WP7113ID5V
Components for handle
GND
Red LED with 5V resistor
SW_Push
SW4
GND
J8
95501-2661
GND
GND
LED8
WP7113ID5V
Red LED with 5V resistor
GND

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File: Handles.kicad_sch
Title:
Size: A4   Date:
KiCad E.D.A. 8.0.6
Rev:
Id: 2/4

RN1
4116R-1-103FLF

Ready	1	1	16	16	GND
Trigger 1	2	2	15	15	
Trigger 2	3	3	14	14	
Trigger 3	4	4	13	13	
Trigger 4	5	5	12	12	
Button 1	6	6	11	11	
Buzzer	7	7	10	10	
Switch 1	8	8	9		

Q1
BS170

Vbus_5V 1 DRAIN
3 SOURCE GATE 2 Ready

J17
67996-100HLF
2 2 Vbus_5V
1 1 GND

J18
67996-100HLF
2 2 Vbus_3V3
1 1 GND

J1
95501-2661
GND 2 2 1 1 GND
4 4 3 3 Trigger 1
GND 6 6 5 5 Vbus_5V

J2
95501-2661
GND 2 2 1 1 GND
4 4 3 3 Trigger 2
GND 6 6 5 5 Vbus_5V

J3
95501-2661
GND 2 2 1 1 GND
4 4 3 3 Trigger 3
GND 6 6 5 5 Vbus_5V

J4
95501-2661
GND 2 2 1 1 GND
4 4 3 3 Trigger 4
GND 6 6 5 5 Vbus_5V

J19
67996-100HLF
2 2
1 1

J20
67996-100HLF
2 2
1 1

Arduino_Nano_v3.x
VIN 30
3V3 17 Vbus_3V3
+5V 27 Vbus_5V
D0/RX 2
D1/TX 1
RESET 28
RESET 3
Ready 5 D2
Trigger 1 6 D3
Trigger 2 7 D4
Trigger 3 8 D5
Trigger 4 9 D6
Button 1 10 D7
Switch 1 11 D8
Buzzer 12 D9
D10 13
D11 14
D12 15
D13 16
AREF 18
A0 19 LED 1
A1 20 LED 2
A2 21 LED 3
A3 22 LED 4
A4 23 LED 5
A5 24 LED 6
A6 25 LED 7
A7 26 LED 8
GND 4
GND 29
A1
GND GND

S1
OS102011MS2QS1
MH2 5
NC 3
COM 2 Switch 1
NO 1 Vbus_5V
MH1 4
Switch for sound

IC1
TS02-66-60-BK-100-SCR-D
NO_1 1 NO_2 2 Button 1
COM_1 3 COM_2 4 Vbus_5V
Button for Game

LED9
SSA-LXH1025GD

LED 1	1	A_1	K_1	2	
LED 2	3	A_2	K_2	4	
LED 3	5	A_3	K_3	6	
LED 4	7	A_4	K_4	8	
LED 5	9	A_5	K_5	10	
LED 6	11	A_6	K_6	12	
LED 7	13	A_7	K_7	14	
LED 8	15	A_8	K_8	16	
Switch 1	17	A_9	K_9	18	
Button 1	19	A_10	K_10	20	

R1
4116R-1-121LF

1	1	16	16	GND
2	2	15	15
3	3	14	14
4	4	13	13
5	5	12	12
6	6	11	11
7	7	10	10
8	8	9	

R2
4116R-1-121LF

1	1	16	16
2	2	15	15
3	3	14	14
4	4	13	13
5	5	12	12
6	6	11	11
7	7	10	10
8	8	9	

Q2
BS170
Buzzer 2 GATE DRAIN 1 Vbus_5V
SOURCE 3
LS1
CMT-1209-590T
+ 1
- 2
GND

J9
25 ft RJ12

6
5
4
3
2
1

J12
25 ft RJ12

6
5
4
3
2
1

J10
25 ft RJ12

6
5
4
3
2
1

J13
25 ft RJ12

6
5
4
3
2
1

J11
USB_B_Micro

VBUS 1
D+ 3
D− 2
ID 4
Shield GND 6 5

J14
USB_B_Micro

VBUS 1
D+ 3
D− 2
ID 4
Shield GND 6 5