FABOY PROTO-BOARD

MAX1595UMAX

2.2uF
C12
C13
2.2uF
C11
0.47uF

on

off

S5

Si4332BDY
U$8

10k
R12

S2
S4
S1
S3

1uF
C1
10uF
C2
1uF
1uF
C5

R1
390k
4.7uF / 19uH
2.2nB
C4

U$2

ATMEGA32U4-AU

C16
4.7uF

C7
1uH
Y1

C10
1uF

reset

10k
R11

U$7
LED3RGB-P-LCC-4

820
R4
820
R9
R10

SWITCH-MOMENTARY-2SMD-REDUNDANT
SWITCH-MOMENTARY-2SMD-REDUNDANT
SWITCH-MOMENTARY-2SMD-REDUNDANT
SWITCH-MOMENTARY-2SMD-REDUNDANT
SWITCH-MOMENTARY-2SMD-REDUNDANT
SWITCH-MOMENTARY-2SMD-REDUNDANT

S6
S7

R8
charge
LED4

470

390k

R7
4.7uF
C15
4.7uF
C14

BAT1

C9
C8
0.1uF
1uF

RGB2
LED2
LED1
RX
TX
820
820
R6

500mA
F1
820

22
R5
R2
R1
R3

J1
USB-MICROBREDUCED_PASTE

PCB Front

Partlist exported from /home/louis/eagle/faboy/pcb/faboy/faboy.sch at 01.12.16 16:02

Qty	Value	Device	Package	Parts	Description
1	BATTCON_20MM	BATTERY20SMD		BAT1	Battery Holders
3	SML0805	LEDSML0805		LED1, LED2, LED3	LED
1	FEMALE-V2	M06SMD-FEMALE-V2	CONN-09668	J2	1X06-SMD-Header
1	SMD-A	SWITCH-SPDT-SMD-A	SWCH-10651	S5	SWITCH-SPDT-SMD-A SPDT SWITCH-SPST-Switch
7	1uF	C-EUC0805K	C0805K symbol	C1, C2, C5, C6, C7, C8, C10	CAPACITOR, European
1	0.1uF	C-EUC0805K	C0805K symbol	C9	CAPACITOR, European
1	0.47uF	C-EUC0805K	C0805K symbol	C11	CAPACITOR, European
3	2.2uF	C-EUC0805K	C0805K symbol	C4, C12, C13	CAPACITOR, European
3	4.7uF	C-EUC0805K	C0805K symbol	C14, C15, C16	CAPACITOR, European
1	4.7uF / 10v	C-EUC0805K	C0805K symbol	C3	CAPACITOR, European
2	10k	R-EU_R0805	R0805 symbol	R2, R12	RESISTOR, European
2	22	R-EU_R0805	R0805 symbol	R3, R4	RESISTOR, European
2	390k	R-EU_R0805	R0805 symbol	R1, R7	RESISTOR, European
1	470	R-EU_R0805	R0805 symbol	R8	RESISTOR, European
5	820	R-EU_R0805	R0805 symbol	R5, R6, R9, R10, R11	RESISTOR, European
1	500mA	PTCFUSE-1812	1812	F1	PTC fuses, resettable thermistors
1	16MHZ	RESONATOR16MHZ	SMD XTAL-08900	Y1	RESONATOR-Resonator 16MHZ
1	ATMEGA32U4-AU	ATMEGA32U4-AU	TQFP44	U$2	http://www.ladyada.net/ library/eagle
1	BUZZERSMD3	BUZZERSMD3	CMT1102	SG1	Buzzer BUZZER-

Qty	Value	Device	Package	Parts	Description
1	LED-RGB-P-LCC-4	LED-RGB-P-LCC-4	LCC-4-3	U	12mm P-LCC-4
1	MAX1595UMAX	MAX1595UMAX	UMAX8	U1	max1595 buck/boost dcdc 3.3v output
1	MCP73831	MCP73831	SOT23-5	U2	Miniature single cell, fully integrated Li-Ion, Li-polymer charge management controller IC-09995
1	SI4833BDY	SI4833BDY	S008	U	
1	SWITCH-MOMENTARY-2SMD-3	SWITCH-MOMENTARY-2SMD-3	TACTILE_SWITCH_SMD-3	S8	Various NO switches-pushbuttons, reed, etc
6	SWITCH-MOMENTARY-2SMD-3	SWITCH-MOMENTARY-2SMD-REDUNDANT	TACTILE-SWITCH-SMD SWCH-08247	S1, S2, S3, S4, S6, S7	Various NO switches-pushbuttons, reed, etc
1	UG-2864HSWEG01	UG-2864HSWEG01	1X30-0.7MM	U$1	UG-2864HSWEG01 OLED display
1	USB-MICROBREDUCED_PASTE	USB-MICROBREDUCED_PASTE	SMD_V03_RED_PASTE CONN-11752	J1	USB-B-MICRO- RED_PASTE version has 70% paste area under D+ D- USBID pins for applications
1	direct path	SJ_2	SJ2W	SJ23	SMD solder JUMPER
1	direct power	SJ	SJ	SJ1	SMD solder JUMPER