Aerospace Village Badge 2021 - Assembly Instructions

Components

Reference	Quantity	Value	Footprint
BT1	1	Battery_Cell	2479_battery_holder:2479
C1 C2	2	.1uF	Resistors_SMD:R_1206_3216Metric
D1 D2	2	RGB LED	sunled:XZMDKCBDDG45S-9
D10-12	3	Yellow LED	sunled:XZMYK45WT-9
D4 D9	2	Blue LED	sunled:XZFBB45S-9
D3 D5	2	White LED	aerospace_badge:led_in-s124ar
D6 D7	2	Green LED	sunled:XZM2CRK45WT-9
D8	1	Red LED	sunled:XZDGK45WT-9
Q1	1	2N3904	aerospace_badge:SOT-23-NPN
R13	1	1K	Resistors_SMD:R_1206_3216Metric
R1-6, R8 R10, R11 R14-20	16	330	Resistors_SMD:R_1206_3216Metric
R7 R9 R12	3	10K	Resistors_SMD:R_1206_3216Metric
SW1	1	SW_SPDT	aerospace_badge:switch_JS202011SCQN
U1	1	ATmega8-16AU	digikey-footprints:TQFP-32_7x7mm

Notes:

- The microcontroller has already been soldered to the board to that it could be preprogrammed for your kit. The picture displaying the microcontroller orientation is provided for reference.
- Components not specifically identified with an orientation marking simply need to be connected their respective copper traces (i.e. resistors[R], capacitors[C], transistor[Q])

Green arrow used to indicate orientation of component and PCB "T" shape. Both should be oriented in the same manner.

Red arrow used to indicate orientation of component and PCB dots/circles

Component Orientation