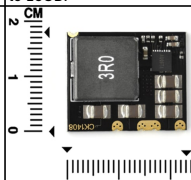
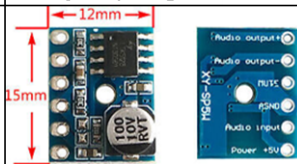




| SBK_WRIST_BLATER_II_PCB V0.2 | | | | | |
|---|--|-----|-------------------------|---|--|
| Description | Dimensions / Value | Qté | Supplier | Part Number | Comments |
| PCB | 57 x 58 x 1.6mm | 1 | SBK | SBK_WRIST_BLATER_II_PCB V0.2 | Email me for inquiries : SmartBuildsKits@gmail.com |
| Arduino Nano Every with 2x male header 1x15 | Arduino Nano Every | 1 | Digikey, Mouser | ABX00033 | |
| DFPlayer Mini with 2x male header 1x08 | DFR0299 | 1 | Digikey, Mouser | DFR0299 | |
| Micro SD card | Recommended Class 4 128 MB min. (for sound effects and a few music tracks only) 16 GB max (unlimited music tracks !) | 1 | Amazon | | Size up to your taste : for the sound effects and few tracks, a 128MB is sufficient. If you want to put a lot of music tracks, well you can go up to 16GB. |
| Power supply module | DFR0753 , DC-DC Buck Converter 6~14V to 5V/8A Replica can be found under the name CK1408... | 1 | Digikey or Mouser | DFR0753 |  |
| LTK5128 5W Class D mono Amp module | 12x15x1.6mm | 1 | Amazon | 5W 5128 Class D mono amplifier module |  |
| Female header | Female 2.54mm 1x08 | 2 | Amazon | Male and femal 2.54 headers kit | You can buy a kit on Amazon to cover all your needs for this project. |
| Female header | Female 2.54mm 1x15 | 2 | | | |
| Male header | Male 2.54mm 1x06 | 1 | | | |
| Male header | Male 2.54mm 1x02 | 1 | | | |
| Male header | Male 2.54mm 1x01 | 3 | | | |
| Male header | Male 2.54mm 2x08 | 1 | | | |
| Male header | Male 2.54mm 2x03 | 2 | | | |
| JST XH254 terminal male plug | JST-XH 2.54mm male terminal, THT, 1x05 | 1 | Amazon | JST-XH 2.54mm kit | You can buy a kit on Amazon to cover all your needs for this project. |
| JST XH254 terminal male plug | JST-XH 2.54mm male terminal, THT, 1x03 | 1 | | | |
| JST XH254 terminal male plug | JST-XH 2.54mm male terminal, THT, 1x02 | 5 | | | |
| Resistor 1/4W | 10k THT 1/4W | 2 | Amazon | resistors kit | You can buy a kit on Amazon to cover all your needs for this project. |
| | 2k THT 1/4W | 1 | | | |
| | 1k THT 1/4W | 1 | | | |
| | 470 THT 1/4W | 3 | | | |
| | 150 THT 1/4W (for fire button yellow led) | 1 | | | |
| Ceramic capacitor | 0.1uF - 5mm between pins | 2 | Digikey | 0.1uF Ceramic Capacitor | Beware that some ceramic capacitors on Amazon or Aliexpress are fake or out of spec. |
| Ceramic capacitor | 1uF - 5mm between pins | 1 | Digikey | 1uF Ceramic Capacitor | |
| Low ESR Electrolytic Capacitor | 220 uF 10V 6mm dia x 7mm, 2.5mm between pins | 1 | Digikey, Mouser, Amazon | 220 uF 10V 6mm dia x 7mm | This capacitor is under the board, there is other size, but the 7mm high is more convenient to fit under the board. |
| Low ESR Electrolytic Capacitor | 1500 uF 10V 10mm dia x 17mm, 5mm between pins | 1 | Digikey, Mouser, Amazon | 1500 uF | Various size available, but max diameter is 13mm. |
| trimmer pot | 50K, 3362P Serie, P503, THT | 1 | Amazon, Mouser, Digikey | trim pot kit | |
| MOSFET | BS170 TO-92 NMOS - DGS (Drain-Gate-Source) | 2 | Amazon, Mouser, Digikey | BS170 TO-92 | Be aware that some Chinese knockouts are not DGS but SGD... So test your MOSFET before soldering them. The SGD can still be used, you need to rotate them 180° on the pcb regarding to silkscreen marking... |
| Flyback diode | 1N5819 THT | 2 | Amazon, Mouser, Digikey | 1N5819 | Not on the PCB but should be installed accross 5V and GND of pump and fan for the smoke effect. Could be soldered under the PBC on the JST-XH pins below the board. See schematics for details. |

| Bar Meter PCBs | | | | | |
|------------------------------|--|-----|-------------------------|---|---|
| Description | Dimensions / Value | Qté | Supplier | Part Number | Comments |
| Bar meter driver PCB | 54.1*20.4mm | 1 | SBK | SBK BarDrive xx28 V2 | xx = SA -> Common Anode xx = SK -> Common Cathode |
| Bar meter PCB | 47.2x20.4mm | 1 | SBK | SBK BarMeter 28 V0 | Fits both SA or SK bar meter |
| Leds driver chip | MAX7221 DIP-24 | 1 | Digikey, Mouser, Amazon | MAX7221 DIP-24 | Can find knock off on Amazon or Aliexpress.. |
| Bar Meter 28segments yellow | BL28-3005xx04Y | 1 | Aliexpress | BL28-3005xx04Y | Must fit your driver PCB : xx = SA -> Common Anode xx = SK -> Common Cathode Can find various sellers on Aliexpress, I do not recommand one in particular... |
| JST XH254 terminal male plug | JST-XH 2.54mm male terminal, THT, 1x05 | 1 | Amazon | JST-XH 2.54mm kit | You can buy a kit on Amazon to cover all your needs for this project. |
| Male header | Male 2.54mm 1x06 | 1 | Amazon | Male and femal 2.54 headers kit | You can buy a kit on Amazon to cover all your needs for this project. |
| Male header | Male 2.54mm 1x05 | 1 | | | |
| Male header | Male 2.54mm 1x02 | 1 | | | |
| Resistor 1/4W | 27kOhms | 1 | Amazon | 27kOhms 1/4W resistor | You won't find those easily in a kit... |
| Ceramic capacitor | 0.1uF - 5mm between pins | 3 | Digikey | 0.1uF Ceramic Capacitor | Beware that some ceramic capacitors on Amazon or Aliexpress are fake or out of spec. |
| Capacitor | 10uF 10V 4mm dia x 7mm, 1.5mm between pins | 1 | Digikey, Mouser, Amazon | 10 uF 25V 4x7mm | 6.3V is the minimum for this capacitor. |

| Cables and jumpers | | | | | |
|---|--|-----|--------------------|--|--|
| Description | Dimensions / Value | Qté | Supplier | Part Number | Comments |
| Bar meter jumper connector | JST-XH254 5pins female-female 10-15 cm | 1 | Amazon, Aliexpress | JST-XH254 5pins female-female 10-15 cm | 10cm is a little short, 20 is a little long, 15cm rarely available unfortunately |
| Potentiometer connector plug | Dupont female plug 1x03 | 2 | Amazon, Aliexpress | Dupont kit | You can try to build a kit from this link for your needs. You can take longer pre-clamp wire and cut them in half to make 2 wires... |
| Switches and buttons connector plug | Dupont female plug 2x06 | 1 | | | |
| Wires for potentiometer, switches and buttons | Dupont female pre-clamp wire 20cm | 18 | Amazon, Aliexpress | JST-XH254 jumper | You can try to make your jumper out of a kit like that. |
| Leds Strip jumper connector | Female JST-XH254 3pins to wire jumper 20cm | 1 | | | |
| Speaker connector | Female JST-XH254 2pins to wire jumper 20cm | 1 | | | |
| Smoke vacuum pump connector | Female JST-XH254 2pins to wire jumper 20cm | 1 | | | |
| Smoke fan connector | Female JST-XH254 2pins to wire jumper 20cm | 1 | | | |
| Batterie connector | Female JST-XH254 2pins to wire jumper 20cm | 1 | | | |

| Accessories | | | | | |
|---------------------------------------|--|-----|-------------------------|---|---|
| Description | Dimensions / Value | Qté | Supplier | Part Number | Comments |
| Toggle switch | Blue mini MTS-101 2-pin SPST | 4 | Amazon | Blue mini MTS-101 SPST | Could also be MTS-102 3pin SPDT |
| Push button with yellow led indicator | R16-503 16mm Momentary Push Button 4pin Yellow | 1 | Amazon, Digikey, Mouser | R16-503 16mm Momentary Push Button 4pin Yellow | Be carefull, choose Momentory and 4 pins... |
| Speaker | 2 inches 5W 4Ohms | 1 | Amazon, Aliexpress | Link for refrence only  | I do not recommend any speaker. Foot print must match this : |
| Potentiometer | B10K, 15mm shaft | 2 | Amazon | B10K 15mm shaft | For the hue control in the Clippard valve, potentiometer pins could have to be bent or cut to fit inside... |
| Mini vacuum pump (for smoke) | 5VDC, less then 500mA | 1 | Amazon, Aliexpress | No model number  | Must fit these dimensions to fit in the Clippard Valve. IMPORTANT : This pump fits the Clippard valve BUT there is no success in using it with a vaccum self triggerred ecig. So smoke effects are still doable with the board outputs, but there is no good combinaison of pump and smoke device discovered yet. It's still a work in progress... |
| Fan (for smoke) | 3006 or 3007, 2pins, 5VDC, less then 500mA | 1 | Amazon | 3006 5v 2pin fan | 3006 are more expensive then 3007 fan... |