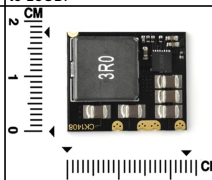
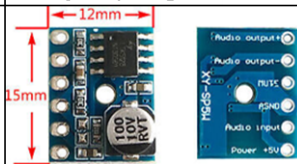

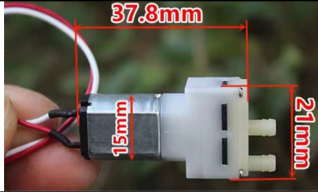


SBK_WRIST_BLATER_II_PCB V1.3					
Description	Dimensions / Value	Qté	Supplier	Part Number	Comments
PCB	57 x 58 x 1.6mm	1	SBK	<a href="#">SBK_WRIST_BLATER_II_PCB V0</a>	<a href="mailto:SmartBuildsKits@gmail.com">Email me for inquiries : SmartBuildsKits@gmail.com</a>
Arduino Nano Every with 2x male header 1x15	Arduino Nano Every	1	Digikey, Mouser	<a href="#">ABX00033</a>	
DFPlayer Mini with 2x male header 1x08	DFR0299	1	Digikey, Mouser	<a href="#">DFR0299</a>	
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	<a href="#">DFR0753</a>	
LTK5128 5W Class D mono Amp module	12x15x1.6mm	1	Amazon	<a href="#">5W 5128 Class D mono amplifier module</a>	
Female header	Female 2.54mm 1x08	2	Amazon	<a href="#">Male and femal 2.54 headers kit</a>	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	<a href="#">JST-XH 2.54mm kit</a>	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	<a href="#">resistors kit</a>	You can buy a kit on Amazon to cover all your needs for this project.
	4K7 THT 1/4W	2			
	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	3	Amazon	<a href="#">0.1uF 104 multilayer Ceramic Capacitor</a>	
Low ESR Electrolytic Capacitor	220 uF 10V 6mm dia x 7mm, 2.5mm between pins	1	Digikey, Mouser, Amazon	<a href="#">220 uF 10V 6mm dia x 7mm</a>	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	<a href="#">1500 uF</a>	Various size available, but max diameter is 13mm.
trimer pot	50K, 3362P Serie, P503, THT	1	Amazon, Mouser, Digikey	<a href="#">trim pot kit</a>	
MOSFET	BS170 TO-92 NMOS - DGS (Drain-Gate-Source)	2	Amazon, Mouser, Digikey	<a href="#">BS170 TO-92</a>	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	<a href="#">1N5819</a>	Not on the PCB but should be installed accross 5V and GND of pump and fan for the smoke effect. Could be solederd 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	<a href="#">SBK_WB_BG_xx_DR_PCB V0</a>	xx = SA -> Common Anode xx = SK -> Common Cathode
Bar meter PCB	47.2x20.4mm	1	SBK	<a href="#">SBK_WB_BG_28SEG_PCB V0</a>	Fits both SA or SK bar meter
Leds driver chip	MAX7221 DIP-24	1	Digikey, Mouser, Amazon	<a href="#">MAX7221 DIP-24</a>	Can find knock off on Amazon or Aliexpress..
Bar Meter 28segments yellow	BL28-3005xx04Y	1	Aliexpress	<a href="#">BL28-3005xx04Y</a>	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	<a href="#">JST-XH 2.54mm kit</a>	You can buy a kit on Amazon to cover all your needs for this project.
Male header	Male 2.54mm 1x06	1	Amazon	<a href="#">Male and femal 2.54 headers kit</a>	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	<a href="#">27kOhms 1/4W resistor</a>	You won't find those easily in a kit...
Ceramic capacitor	0.1uF - 5mm between pins	3	Amazon	<a href="#">0.1uF 104 multilayer Ceramic Capacitor</a>	
Capacitor	10uF 10V 4mm dia x 7mm, 1.5mm between pins	1	Digikey, Mouser, Amazon	<a href="#">10 uF 25V 4x7mm</a>	6.3V is the minimum for this capacitor.

Câbles 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	<a href="#">JST-XH254 5pins female-female 10-15 cm</a>	10cm is a little short, 20 is a little long, 15cm rarely available unfortunately
Potentiometer connector plug	Dupont female plug 1x03	2	Amazon, Aliexpress	<a href="#">Dupont kit</a>	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			
Leds Strip jumper connector	Female JST-XH254 3pins to wire jumper 20cm	1	Amazon, Aliexpress	<a href="#">JST-XH254 jumper</a>	You can try to make your jumper out of a kit like that.
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	<a href="#">Blue mini MTS-101 SPST</a>	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	<a href="#">R16-503 16mm Momentary Push Button 4pin Yellow</a>	Be carefull, choose Momentory and 4 pins...
Speaker	2 inches 5W 4Ohms	1	Amazon, Aliexpress	<a href="#">Link for refrence only</a> 	I do not recommend any speaker. Foot print must match this :
Potentiometer	B10K, 15mm shaft	2	Amazon	<a href="#">B10K 15mm shaft</a>	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	<a href="#">No model number</a> 	Must fit these dimensions to fit in the Clippard Valve
Fan (for smoke)	3006 or 3007, 2pins, 5VDC, less then 500mA	1	Amazon	3006 5v 2pin fan	3006 are more expensive then 3007 fan...