Through Hole Clouds BoM

Component	Value	Qty	Interface PCB	Control PCB
ARM Microcontroller	STM32F405RGT6	1		IC5
Audio Codec	WM8731	1		IC8
Diode	1N4002	2		D1, D2
Resistor	100k	8	R21, R24, R29, R32, R38, R39,	R12, R15
Resistor	10K	4		R13, R14, R16, R17,
Resistor	180k	1	R36	
Resistor	1k	2	R61, R62,	
Resistor	200k	5	R22, R23, R28, R33, R37,	
Resistor	27k	2	R57, R58,	
Resistor	2k2	2		R40, R41
Resistor	33k	3	R25, R26, R35	
Resistor	33R	1	R1	
Resistor	39k	4	R48, R49, R50, R59	
Resistor	3k3	2	R46, R47	
Resistor	470R	1	R30	
Resistor	47k	1	R34	
Resistor	4R7	1		R11
Resistor	5k6	6	R51, R52, R53, R54, R55, R56	
Resistor	66k5	2	R27, R31	
Resistor	68R	8	R3, R4, R5, R6, R7, R8, R9, R10	
Ceramic Capacitor	100nF	19	C5, C15, C16, C23, C38, C39, C45, C46	C3, C8, C14, C17, C18, C25, C26, C29, C30, C32, C34
Ceramic Capacitor	15pF	4	C40, C42	C6, C7
Ceramic Capacitor	1nF	6	C9, C10, C11, C20, C21, C22,	
Ceramic Capacitor	1uF	3		C12, C28, C31
Ceramic Capacitor	220pF	2	C43, C44	
Ceramic Capacitor	2u2	2		C19, C24
Electrolytic Capacitor	10uF	5		C33, C35, C36, C37, C41
Electrolytic Capacitor	47uF	5		C1, C2, C4, C13, C27
Crystal	8Mhz	1		Q3
Transistor	2N3904	2		Q1, Q2
DIL Socket	8 Pin	3	IC3, IC9, IC10	
DIL Socket	14 Pin	1	IC4	
DIL Socket	16 Pin	1	IC1	
Voltage Reference	LM4040DIZ	1	IC6	
Voltage Regulator	UA78M33CKCS	2		IC2, IC7
PCB Header Male	1x6 2.54mm	1	JP1	
PCB Header Male	2x5 1.27mm	1	JP2 (MINI JTAG)	
PCB Header Male	1x3 2.54mm	1	JP6	
PCB Header Female	1x3 2.54mm	1		JP6
PCB Header Male	2x4 2.54mm	2	JP3, JP5	
PCB Header Female	2x4 2.54mm	2		JP3, JP5
PCB Header Male	2x5 2.54mm	2	JP4, PWR1	
PCB Header Female	2x5 2.54mm	1		JP4
Push Button LED Switch	LP4OA1PBCT	1		SW1
Switch SPST (6mm PCB)	E-switch TL1105SPF250Q	4	SW2, SW3	SW4, SW5
Switch Cap	E-switch 1RBLK	2	SW2, SW3	
Alpha 9mm Vertical Linear Pot	10KB	6	R18, R19, R20, R43, R44, R45	
3.5m Jack	PJ-301-M-12	12	J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11, J12,	
Stereo 50KB Pot	PTV112-4420A-A503	1	R42RA	
Dual Colour LED	WP59EGW	4	LED1, LED2, LED3, LED4	
8bit Shift Register	SN74HC595N	1	IC1	
Op Amp	LME49720	2	IC9, IC10	
Op Amp	MCP6004	1	IC4	
Op Amp	MCP6002	1	IC3	
Knob	6.35mm Round Shaft	6	R18, R19, R20, R43, R44, R45	
Knob	D Shaft	1	R42RA	
Heat Sink		1		IC2
PCB Spacers	12x2.54mm	4		
IDC Connector	16 Pin	1		
IDC Connector	10 Pin	1		
Ribbon Cable	16 core	1		
Screws	M3	4		
PCB Set		1	Interface PCB	Control PCB