

Document reference:	PCB reference:
	STEVAL-CCA021V1
Company:	
STMicroelectronics	

Audio Dongle Control Board							
Description	Comment	Designator	Footprint	Quantity	SupplierName	SupplierOrderCode	Note
Button	DT2112C	B1	Button_DT2112C	1	GM Electronic	630-121	
Polarized Capacitor	4.7uF	C1	3528_AB	1	GM Electronic	907-125	Do not populate
Polarized Capacitor	4.7uF	C5	3528_AB	1	GM Electronic	907-125	
Capacitor	1uF	C2, C3	C1206	2	GM Electronic	905-152	
Capacitor	10nF	C4	0603	1	GM Electronic	972-014	
Capacitor	4.7nF	C6	0603	1	GM Electronic	972-067	
Capacitor	100nF	C7, C9, C11, C12, C13, C14, C15	0603	7	GM Electronic	972-012	
Capacitor	100nF	C16	0603	1	GM Electronic	972-012	Do not populate
Capacitor	33pF	C8, C10	0603	2	GM Electronic	972-019	
JTAG header, side mounting	MLW20G	CN1	HDR2X10 S	1	GM Electronic	800-036	
USB Connector	USB1X90A PCB	CN2	USB_1X90A_PCB4_MV	1	GM Electronic	832-139	
BLM18EG221SN1	Inductor	L1	0603	1	Farnell (Murata)	1515716	
LED 0805 RED 45/130°	GME 960-024	LD1	D0805B	1	GM Electronic	960-024	
LED 0805 GREEN 35/130°	GME 960-023	LD2	D0805B	1	GM Electronic	960-023	
Header, 10-Pin, Dual row, side mounting	BL220G	P2	HDR2X10 S	1	GM Electronic	832-070	
Resistor	10K	R1, R2, R6, R9, R10, R14	0603	6	GM Electronic	901-399	
Resistor	1k5	R3	0603	1	GM Electronic	901-504	
Resistor	4R7	R4, R5	0603	2	GM Electronic	901-648	
Resistor	1M	R7	0603	1	GM Electronic	901-445	
Resistor	0R	R8	0603	1	GM Electronic	901-396	
Resistor	470	R12	0603	1	GM Electronic	901-495	
Resistor	220	R13	0603	1	GM Electronic	901-491	
STM32 ARM-based 32-bit MCU with 512 Kbytes Flash, 64-pin LQFP	STM32F103RET6	U1	LQFP64_N	1	STMicroelectronicis	STM32F103RET6	
Stabilizator	LD3985XX33	U2	SOT23-5L	1	STMicroelectronicis	LD3985M33	
64 Mbit, low voltage, Serial Flash memory	M25P64-VME6G	U3	XDFPN6(8-P)	1	STMicroelectronicis	M25P64-VME6G	Do not populate
Very low capacitance ESD protection	USBLC6-2P6	U4	SOT-666	1	STMicroelectronicis	USBLC6-2P6	
Crystal	TSX-3225 / 16MHz	X1	TSX-3225_FA-238	1	EPSON	TSX-3225 / X1E000021011401	

TS4657 Audio Card							
Description	Comment	Designator	Footprint	Quantity	SupplierName	SupplierReference	Note
Capacitor	1uF	C1, C2, C3, C4, C5, C6, C24, C27, C29	[0603]	9	Farnell (Kemet)	9227776	
Capacitor	100nF	C7, C16, C17, C19, C20, C21, C22, C25, C34	[0603]	9	GM Electronic	972-012	
Capacitor	100pF	C8, C9, C18, C23, C30, C31, C32, C33	[0603]	8	GM Electronic	972-013	
Capacitor	2n2	C10, C14	[0603]	2	GM Electronic	972-060	
Capacitor	220n	C11, C12, C13, C15	[0603]	4	GM Electronic	972-034	
Polarized Capacitor (Surface Mount)	10uF/16V	C26, C35, C36	C3225[1210]	3	GM Electronic	907-112	
Capacitor	0R/22nF	C28	[0603]	1	GM Electronic	901-396	Use 0R resistor
Typical RED, GREEN, YELLOW, AMBER GaAs LED	LED_GREEN_0805	LED1	2012[0805]_TO_DIODE_wave	1	GM Electronic	960-023	
RCA Phono Jack, Right Angle, Thru-Hole, Snap-In	RCA WBTOR 1	J1, J3	RCA/4.5-H2	2	Farnell (Lumberg)	1200146	
Socket, 3.5mm Jack, Mono	Lumberg 1503 06	J4	JACK/6-V3A	1	Farnell (Lumberg)	1243243	
Inductor	BLM18EG221SN1	L1, L2, L3, L4, L5, L6	1608[0603]	6	Farnell (Murata)	1515716	
Header, 10-Pin, Dual row, side mounting	Header 2x10 pin, S2G20	P1	HDR2X10 S	1	GM Electronic	832-023	
Header, 2-Pin, TERMINAL BLOCK, PCB, 2.54MM, 2WAY	Terminal Block	P2, P3	MPT 0,5/ 2-2,54	2	Farnell (Phoenix Contact)	3041359	
Resistor	10K	R1, R2, R7, R8, R9, R10, R13, R15, R20	[0603]	9	GM Electronic	901-399	
Resistor	100K	R3	[0603]	1	GM Electronic	901-529	
Resistor	820R	R4, R5	[0603]	2	GM Electronic	901-500	
Resistor	680R	R6	[0603]	1	GM Electronic	901-498	
Resistor	1K	R11, R12	[0603]	2	GM Electronic	901-502	
Resistor	150k	R14, R16	[0603]	2	GM Electronic	901-633	
Resistor	68R	R17	[0603]	1	GM Electronic	901-408	
Single supply stereo digital audio line driver	ST: TS4657IQT	U1	QFN20_TS4657	1	STMicroelectronics	TS4657IQT	
Filter-free stereo 2x2.8W class D audio power amplifier	ST: TS2012IQT	U2	QFN20 - TS2012	1	STMicroelectronics	TS2012IQT	
2.8W filter-free mono class D audio power amplifier	ST: TS4962IQT	U3	DFN8 - TS4962	1	STMicroelectronics	TS4962IQT	
Low noise microphone preamplifier	ST: TS472IQT	U4	QFN24_TS472	1	STMicroelectronics	TS472IQT	
Microphone	KEEG1542PBL	U5	KEC2740	1	Farnell (KINGSTATE)	1502746	
Transducer, Speaker	KSSG1708	U6	KSS1708	1	Farnell (KINGSTATE)	1502738	