

Qty	Reference	Manufacturer	Value	remarks
1	U1	TI	74HCU04	
1	J5	toshiba	TOTX178	
1	U2	LT	LT317	
1	U3	TI	PCM2706	
1	U11	Philip	TDA1543	
4	D1-D4	ON semi	mur160/1100	
1	Y1	crystal	12Mhz	
1	C16	ELNA Cerafine N.P.	220u	audio coupling for HP out
1	C17	ELNA Cerafine N.P.	220u	audio coupling for HP out
1	C36	ELNA Cerafine N.P.	3.3u	audio coupling for 1543
1	C37	ELNA Cerafine N.P.	3.3u	audio coupling for 1543
1	C5	silver mica	22p	
1	C1	silver mica	22p	
1	C2	WIMA	0.022u	HP out filter
1	C3	WIMA	0.022u	HP out filter
1	C38	WIMA MKP10 0.1u/63v	0.1u/63v	power decoupling(near 1543)
1	C48	WIMA	0.1u/63v	power decoupling
1	C49	WIMA	0.1u/63v	power decoupling
1	C4	WIMA	0.1u/63v	power decoupling
1	C6	WIMA	0.1u/63v	power decoupling
1	C8	WIMA	0.1u/63v	power decoupling
1	C10	WIMA	0.1u/63v	power decoupling
1	C12	WIMA	0.1u/63v	power decoupling
1	C14	WIMA	0.1u/63v	power decoupling
1	C20	WIMA	0.1u/63v	power decoupling
1	C22	WIMA	0.1u/63v	power decoupling
1	C18	WIMA MKP10	0.047u	SPDIF coupling

1 C7	ELNA silmic	47u	internal 3.3v decoupling
1 C9	ELNA silmic	47u	power decoupling
1 C11	ELNA silmic	47u	power decoupling
1 C13	ELNA silmic	47u	power decoupling
1 C15	ELNA silmic	47u	power decoupling
1 C19	ELNA silmic	47u	power decoupling
1 C21	ELNA silmic	47u	power decoupling
1 C23	ELNA silmic	47u	power decoupling
1 C39	ELNA silmic	47u	TDA1543 power decoupling
1 C40	ELNA silmic	47u	power decoupling
1 C47	ELNA for audio	3300u/43v	
1 J6	DC	2 pin connector	regulated DC in from 1543
1 J8	DC	2 pin connector	regulated DC out for LT317
1 J7	AC9V	2 pin connector	connect to AC9V
1 J4	HP out	3 pin connector	2706 headphone out connector
1 USB	usb connector		
1 J1	I2S		
1 J3	I2S		
1 J2	I2S/SPDIF (2.54mm 2 pin connector)		
1 L1	inductor	100UH	reduce noise for GND
1 L2	inductor	100UH	reduce noise for +5v
1 L3	inductor	100UH	reduce noise for TOTX178
1 D5	blue LED(super bright)		1543 power on LED
1 D6	blue LED(super bright)		USB connected LED
1 RCA1	PCB mounted RCA	coaxial out	
1 RCA2	PCB mounted RCA	Rout	
1 RCA3	PCB mounted RCA	Lout	
1 R8	NC	no need to solder	
1 R13	DALE/vishay MBA0204 - 1% 1/4W	16ohm	
1 R14	DALE/vishay MBA0204 - 1% 1/4W	16ohm	
1 R3	DALE/vishay MBA0204 - 1% 1/4W	22 ohm	
1 R4	DALE/vishay MBA0204 - 1% 1/4W	22 ohm	
1 R18	DALE/vishay MBA0204 - 1% 1/4W	100 ohm	

1 R27	DALE/vishay	MBA0204 - 1% 1/4W	330 ohm	
1 R17	DALE/vishay	MBA0204 - 1% 1/4W	330 ohm	
1 R10	DALE/vishay	MBA0204 - 1% 1/4W	1.2k ohm	
1 R11	DALE/vishay	MBA0204 - 1% 1/4W	1.2k ohm	
1 R19	DALE/vishay	MBA0204 - 1% 1/4W	1.2k ohm	
1 R2	DALE/vishay	MBA0204 - 1% 1/4W	1.5k ohm	
1 R5	DALE/vishay	MBA0204 - 1% 1/4W	1.5k ohm	
1 R24	DALE/vishay	MBA0204 - 1% 1/4W	1.5k ohm	
1 R25	DALE/vishay	MBA0204 - 1% 1/4W	1.5k ohm	
1 R28	DALE/vishay	MBA0204 - 1% 1/4W	1.5k ohm	
1 R15	DALE/vishay	MBA0204 - 1% 1/4W	10k ohm	
1 R16	DALE/vishay	MBA0204 - 1% 1/4W	10k ohm	
1 R6	DALE/vishay	MBA0204 - 1% 1/4W	100k ohm	
1 R7	DALE/vishay	MBA0204 - 1% 1/4W	100k ohm	
1 R22	DALE/vishay	MBA0204 - 1% 1/4W	100k ohm	
1 R23	DALE/vishay	MBA0204 - 1% 1/4W	100k ohm	
1 R1	DALE/vishay	MBA0204 - 1% 1/4W	1M ohm	
1 U4	play		(test switch)	
1 U5	mute		(test switch)	
1 U6	vol+		(test switch)	
1 U7	vol-		(test switch)	
1 JP2		0 (short)		short for normal operation
1 JP2		0 (short)		short for normal operation
1 JP3		0 (short)		short for normal operation
1 JP9		0 (short)		short for normal operation
1 JP10		0 (short)		short for normal operation
1 JP11		0 (short)		short for normal operation
1 JP12		0 (short)		short for normal operation
1	AW-D3 PCB			
1	14 pin socket			ic socket for 7404
1	8 pin socket			ic socket for 1543
6	coppur leg set			
1	jumper to select I2s or SPDIF			