

PLEASE report any inconsistencies you might find in the BOM to shoe@enterlogic.se

READ THROUGH THE ENTIRE DOCUMENT BEFORE PROCEEDING, IMPORTANT INFORMATION AT THE END.

Green marked posts are populated at factory
Gray marked are available as option when ordering from enterlogic

Position	Quantity	Description	Manufacturer	Manufacturer Part Number	Digi-Key	Mouser
C98,C72,C6,C7,C8,C16,C33,C46,C63,C68,C69,C70,C71,C87,C88,C97,C109,C110,C111,C112,C113,C115,C116,C117,C118,C119	26	CAP CER 0.1UF 50V X7R 0603	YAGEO	CC0603JRX7R9BB104	311-1779-2-ND	603-CC603JRX7R9BB104
C89,C21,C54,C55,C77,C78,C81,C83	8	0.047 μ F \pm 10% 100V Ceramic Capacitor X7R 0603	Würth Elektronik	885012206118	732-12192-2-ND	
C92	1	20 pF \pm 5% 100V Ceramic Capacitor C0G, NP0 0603	YAGEO	CC0603JRNP00BN200	311-1754-2-ND	
C100	1	10 μ F \pm 20% 25V Ceramic Capacitor X5R 0805	Taiyo Yuden	TMK212BBJ106MG-T	587-6025-2-ND	
C1,C3,C4,C5,C108	5	1 μ F \pm 10% 50V Ceramic Capacitor X5R 0603	Samsung Electro-Mechanics	CL10A105KB8NNNC	1276-1860-2-ND	
C2,C9,C13,C14,C15,C18,C19,C20,C29,C30,C34,C36,C37,C40,C41,C43,C44,C47,C48,C49,C50,C51,C52,C53,C56,C57,C58,C59,C65,C67,C96,C120	32	0.22 μ F \pm 10% 50V Ceramic Capacitor X7R 0603	Samsung Electro-Mechanics	CL10B224KB8NNNC	1276-CL10B224KB8NNNCTR-ND	
C114	1	100 pF \pm 10% 50V Ceramic Capacitor X7R 0603	KEMET	C0603C101K5RACTU	399-C0603C101K5RACTUTR-ND	
C17,C75,C79,C80,C82	5	0.33 μ F \pm 10% 50V Ceramic Capacitor X5R 0603	TDK Corporation	C1608X5R1H334K080AB	445-7462-2-ND	
C22,C23,C24,C25,C26,C27,C28,C35,C38,C39,C73,C74	12	22 pF \pm 5% 50V Ceramic Capacitor C0G, NP0 0603	YAGEO	CC0603JRNP09BN220	311-1062-2-ND	
C31,C32,C45,C42	4	27 pF \pm 5% 50V Ceramic Capacitor C0G, NP0 0603	KEMET	C0603C270J5GAC7867	399-C0603C270J5GAC7867TR-ND	
C60	1	0.01uF \pm 10% 100V Ceramic Capacitor X7R 0603	Murata Electronics	GCM188R72A103KA37D	490-4781-2-ND	
C61,C62,C99,C104,C105	5	0.47 μ F \pm 10% 50V Ceramic Capacitor X5R 0603	Taiyo Yuden	UMK107ABJ474KA-T	587-3171-2-ND	
C10,C11,C12,C76	4	CAP ALUM 470UF 20% 16V RADIAL	Würth Elektronik	860020374012	732-8799-1-ND	710-860020374012
C66	1	CAP ALUM 1000UF 20% 6.3V T/H	Illinois Capacitor	108CKS6R3M	1572-1314-ND	598-108CKS6R3M
C84,C85,C106,C107	4	CAP ALUM 22UF 20% 35V RADIAL TH	Panasonic Electronic Components	EUE-FC1V220H	P19678CT-ND	
C86	1	CAP ALUM 10UF 63V 20% RADIAL	Kemet	ESK106M063AC3AA	399-6100-ND	140-REA100M1JBK0511P
C101,C102	2	3900 pF Film Capacitor 63V 100V Polypropylene	KEMET	PHE426DJ4390JR05	399-PHE426DJ4390JR05-ND	
C90,C91,C94,C95	4	6800 pF Film Capacitor 63V 100V	KEMET	R82EC1680Z350J	399-19324-ND	
C93	1	CAP TRIMMER 10-50PF 100V TH	EW Electronics	GKG50015	2447-GKG50015-ND	Not available
C103	1	CAP 100MF -20% +80% 5.5V T/H	Elna America	DX-5R5V104U	604-1030-ND	555-DX-5R5V104U
Alternative C103		330 mF (EDLC) Supercapacitor 5.5 V Axial, Can - Vertical	CDA (Zhifengwei Technology)	CB5R5334VF-ZJ	4688-CB5R5334VF-ZJ-ND	
D1,D2,D3,D4,D5,D6,D7,D8,D9,D11,D12,D13,D14,D15,D16,D17,D18,D20,D21,D30,D31,D32,D33,D34,D36,D38,D39,D41,D42,D43,D44,D45	32	TVS DIODE 5VVM 9.2VC DO214AC	YAGEO	SMAJ5.0CA/TR13	13-SMAJ5.0CA/TR13CT-ND	603-SMAJ5.0CA/TR13
D19,D37,D40,D22,D23,D24,D25,D26,D27,D29,D35	11	DIODE GP BAS16 100V 200MA SOT23-3	onsemi	SBAS16LT1G	SBAS16LT1GOSTR-ND	
D46	1	Green 570nm LED Indication - Discrete 2V 0805	Würth Elektronik	150080VS7500	732-4986-2-ND	
E1	1	FILTER LC(T) 470PF TH	Murata Electronics North America	DSS1NB32A471Q91A	490-9793-1-ND	81-DSS1NB32A471Q91A
FB1,FB2,FB3,FB6	4	FERRITE CHIP 4A 120 OHM SMD	Laird-Signal Integrity Products	HI1206P121R-10	240-2410-1-ND	875-HI1206P121R-10
FB4,FB5	2	50 Ohms @ 100 MHz Ferrite Bead 1206 6A 10mOhm	Laird-Signal Integrity Products	HI1206T500R-10	240-2412-2-ND	
FB7	1	60 Ohms @ 100 MHz Ferrite Bead 0603<30mOhm	Laird-Signal Integrity Products	HI0603P600R-10	240-2376-2-ND	875-HI0603P600R-10
R182	1	RES 1 OHM 1/2W 1% AXIAL	Vishay / BC Components	SFR25H0001008FR500	BC4398CT-ND	594-5053HD1R000F
R183,R184	2	RES SMD 10 OHM 1% 1/2W 1206	Stackpole Electronics Inc	RNCP1206FTD10R0	RNCP1206FTD10R0CT-ND	71-CRCW120610R0FKEAH
R213	1	RES 1K OHM 1/4W 5% 1206	Stackpole Electronics Inc	RMCF1206JT1K00	RMCF1206JT1K00CT-ND	667-ERJ-8GEYJ102V
R259	1	RES SMD 75R 1206	Stackpole Electronics Inc	RMCF1206FT75R0	RMCF1206FT75R0TR-ND	
R218,R243	2	RES 100 OHM 1% 1/4W 0805	KOA Speer Electronics, Inc.	RK73H2ATTD1000F	2019-RK73H2ATTD1000FTR-ND	
R146,R1,R12,R13,R14,R15,R16,R17,R18,R39,R40,R54,R56,R62,R106,R110,R112,R113,R114,R115,R116,R117,R118,R119,R120,R121,R122,R123,R124,R125,R126,R127,R128,R129,R130,R131,R132,R133,R134,R135,R136,R140,R141,R142,R143,R144,R145,R147,R148,R164,R168,R169,R170,R171,R172,R173,R174,R175,R64,R225,R226,R227,R228,R229,R230,R231,R232,R236	69	RES 68 OHM 1% 1/10W 0603	YAGEO	RC0603FR-0768RL	311-68.0HTR-ND	603-RC0603FR-0768RL
R271,R272	2	RES 120 OHM 1% 1/10W 0603	Stackpole Electronics Inc	RMCF0603FT120R	RMCF0603FT120RTR-ND	
R2,R3,R4,R5,R6,R7,R8,R9,R28,R29,R30,R31,R61,R63,R68,R71,R72,R73,R76,R78,R79,R80,R81,R82,R83,R84,R85,R86,R109,R163,R165,R180,R188,R191,XR4,R258	36	RES 4.7K OHM 1% 1/10W 0603	Stackpole Electronics Inc	RMCF0603FT4K70	RMCF0603FT4K70TR-ND	
R19,R20,R21,R22,R23,R24,R37,R57,R58,R59,R60,R152,R240,R244	14	RES 15 OHM 1% 1/10W 0603	Walsin Technology Corporation	WR06X15R0FTL	1292-WR06X15R0FTLTR-ND	
R25,R26,R27,R32,R33,R34,R35,R36,R38,R44,R45,R47,R52,R53,R70,R75,R105,R138,R179,R193,R194,R196,R197,R198,R199,R200,R201,R202,R205,R206,R208,R209,R210,R211,R212,R234,R235,R237,R238,R239,R241,R242,R245,R246,R247,R248,R249,R251,R260,R261,R262,R263,R264,R265,R268,R269,R270,R273,R274,R275,XR5,R149,R150,R139	63	RES 10K OHM 5% 1/10W 0603	Stackpole Electronics Inc	RMCF0603JT10K0	RMCF0603JT10K0TR-ND	708-RMCF0603JT10K0
R41,R42,R43,R55,R65,R67,R107,R108,R162,R176,R177,R178	12	RES 27 OHM 1% 1/10W 0603	YAGEO	RC0603FR-0727RL	311-27.0HTR-ND	603-RC0603FR-1327RL
R46	1	RES SMD 100 OHM 1% 1/8W 0603	Vishay Beyschlag	MCT06030C1000FP500	MCT0603-100-CFCT-ND	594-MCT06030C1000FP5
R48,R49,R50,R137,R216,R217	6	RES 390 OHM 1/10W 5% 0603 SMD	Panasonic – ECG	ERJ-3GEYJ391V	P390GCT-ND	667-ERJ-3GEYJ391V
R51,R91,R92,R99,R100,R103,R104,R156,R181,R185,R186,R190,R214,R215,R10	15	RES 1K OHM 1% 1/10W 0603	YAGEO	RC0603FR-071KL	311-1.00KHTR-ND	603-RC0603FR-071KL
R66,R69,R74,R87,R88,R89,R90,R93,R94,R95,R96,R97,R98,R101,R102,R151,R153,R161,R266,R267	20	RES 470 OHM 1% 1/10W 0603	Walsin Technology Corporation	WR06X4700FTL	1292-WR06X4700FTLTR-ND	
R77,R166,R220,R223,R167,R219	6	RES SMD 47 OHM 1% 1/10W 0603	Panasonic Electronic Components	ERJ-3EKF47R0V	P47.0HCT-ND	667-ERJ-3EKF47R0V
R222,R224	2	RES SMD 33 OHM 1% 1/10W 0603	Panasonic Electronic Components	ERJ-3EKF33R0V	P33.0HTR-ND	
R154,R155,R157	3	RES 49.9 OHM 1% 1/10W 0603	Stackpole Electronics Inc	RMCF0603FT49R9	RMCF0603FT49R9TR-ND	
R158,R159,R160	3	RES 24.9 OHM 1% 1/10W 0603	YAGEO	RC0603FR-0724R9L	311-24.9HTR-ND	
R187,R192,R195	3	RES SMD 2.7K OHM 1% 1/8W 0603	Vishay Beyschlag	MCT06030C2701FP500	MCT0603-2.70K-CFCT-ND	594-MCT06030C2701FP5
R189,R207,R209	3	RES SMD 470K OHM 1% 1/8W 0603	Vishay Beyschlag	MCT06030C4703FP500	MCT0603-470K-CFCT-ND	594-MCT06030C4703FP5

U1	1	MC68EC020 TQFP	Motorola			
U4	1	ALICE	MOS			
U15	1	LISA	MOS			
U6	1	AA-GAYLE	MOS			
U26,U25	2	MOS8520 PLCC44	MOS			
U24	1	MOS8364 PLCC52	MOS			
U16	1	BUDGIE 391425	MOS			
U13,U14	2	ROM	MOS			
U19	1	ADV101	Analog Devices Inc.			
U20,U21,U22,U23	4	HM514260AJ8	Hitachi Semiconductor			
U28	1	MSM6242B	OKI			
X1	1	XTAL OSCILLATOR 28.37516MHz				
XR:						
XR1 = NC	(Mount to add ROM-wait)					
XR2,XR3	= Mounted (Floppy header extra functions)					
XR4	= Mounted (Lisa Wide)					
XR5	= NC (KB_Reset Pulldown)					
XR6	= NC (Mount to disable Keyboard Reset Warning)					
XR7 to XR9	configures Video Filter (Default 18MHz ,may need to be reconfigured if RTG card is to be used with internal VGA-connector)					
XR7	= Mounted					
XR8	= NC					
XR9	= Mounted					
XR10	= NC (MUST NOT BE MOUNTED, only mount if you are absolutely sure of what you are doing)					
IF U19 = VP101						
R156	= NC					
C64	= NC					
U17	= NC					
C63	= MOUNTED					
IF U19 = ADV101						
R156	= MOUNTED					
C64	= NC					
U17	= MOUNTED					
C63	= MOUNTED					
Some DACS may require C64 to be mounted						
Accessories:						
12mm distance for turbo and video cards						
Hex Standoff Threaded M3 Nylon 0.472" (12.00mm) Natural				36-25511-ND	534-25511	

* Not all components are available at all suppliers.

Although a lot of effort has been put in to choose components that are as easily available as possible, some has to be bought at a specific supplier. Most components are available at Digikey. Some specifications may differ between the suppliers, but they should be compatible in this design.

Component suppliers:

www.mouser.com

www.digikey.com

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