



Bill of Materials (BOM)

Document Reference:	July/22/2026 Vers.1.1	Product Reference:	EVL9962
Company:	STMicroelectronics (www.st.com)	Status / Board:	EVL9962 Rev 1.1

General Notes: All resistors are 1% tolerance unless otherwise indicated. All capacitors are X7R or COG dielectric unless otherwise indicated.

INDEX	DESCRIPTION	VALUE	VOLTAGE / RATING	PART VALUE (DESIGNATOR)	PACKAGE	QTY	MANUFACTURER / PART NO.
1	Capacitor	1uF		C1	1206_C	1	C1206C105J1RACTU
2	Capacitor	10nF 16V 10%		C3	0603_C	1	Capacitor
3	Capacitor	470nF	0.1	C4, C5, C6, C7, C8, C9, C13, C15, C17, C18	0402_C	10	CGA2B1X7S1C474K050BE
4	Capacitor	100nF	0.1	C10, C16	0603_C	2	CGA3E2X8R1E104K080AA
5	Capacitor	10uF	0.1	C19, C20, C21, C22, C23, C24, C25, C26, C27, C28	0805_C	10	CGA4J1X7S1C106K125AC
6	Capacitor	4.7uF	0.1	C12, C29	0805_C	2	CGA4J1X8L1C475K125AC
7	Capacitor	100nF	0.1	C30, C33	0805_C	2	CGA4J2X7R2A104K125AE
8	Capacitor	6.8nF		C32, C34	0603_C	2	GCE188R71H682KA01D
9	Capacitor	68nF	0.1	C31	0603_C	1	GCM188R91E683KA37D
10	Capacitor	2.2nF	0.02	C2	0603_C	1	GRM022R61C222KE01L
11	Capacitor			C37	0603_C	1	06032A101FAT2A
12	Capacitor	220nF		C36	0805_C	1	GRM21AR72A224KAC5K
13	Capacitor	10uF	0.1	C35	1210_C	1	GRM32EC72A106KE05K
14	Capacitor	33nF	0.05	C11, C14	0603_C	2	C0603C333J4REC7411
15	M3 Conn			CH-, CH+, GND, VBAT_EXT	SCREW_TERMINAL_M3_100A_FEMALE	4	Header 3x2_neutral
16	Header, 19-Pin, Dual row (6+2.5+10mm)			CN7	HEADER_FEMALE_2x19_2.54mm	1	Header 19X2
17	Header, 19-Pin, Dual row (6+2.5+10mm)			CN10	HEADER_FEMALE_2x19_2.54mm	1	Header 19X2
18	TVS Diode (Uni-directional)			D1	DIOM5126X265N	1	SMA6J33A-TR
19	Diode			D2	SMA	1	SS1H10-E3_61T

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20	Schottky Diode			D3, D4, D5	SOD-323	3	BAT46WJF
21	Test Point			DIV_C0, DIV_C1, DIV_C2, DIV_C3, DIV_C4, DIV_C5, DIV_C6, DIV_C7, DIV_C8, DIV_C9, DIV_C10, DRAINH, FLTN, FLTNS, FUSE, FUSE_DRV, FUSE_EXT, FUSE_GATE, FUSE_uC_S, NSHIP, NTC, OD, RDY, SCL, SDA, VB, VCP, VREG, VSD_HS, WKP_uC, WKUP	TEST POINT - SIP1	31	Test Point
22	Jumper_SMD MEDIUM - Leave OPEN			FAULTN_SAFE_uC, FAULTN_uC, FUSE_MCU, FUSE_S_uC, J1, J6, J7, J9, J10, J14, J19, J20, J21, J22, J_DIV0, J_DIV1, J_DIV2, J_DIV3, J_DIV4, J_DIV5, J_DIV6, J_DIV7, J_DIV8, J_DIV9, J_DIVC0, J_DIVC1, J_DIVC2, J_DIVC3, J_DIVC4, J_DIVC5, J_DIVC6, J_DIVC7, J_DIVC8, J_DIVC9, J_DIVC10, J_DRAIN_HS, J_NSHP_uC, J_TST, J_VBAT_CELL10, JCAN1, JCAN2, JCAN3, JCAN4, JGND_C0, JVREG_uC, RDY_uC, SCL_uC, SDA_uC, uC_RST	0805_JUMPER	49	JUMPER_SMD
23	Resistor			FAULTN, FAULTN_SAFE, J_NSHP1, JC0, JC1, JC2, JC3, JC4, JC5, JC6, JC7, JC8, JC9	JUMP A SALDARE TRIPLO - 0805	13	Solder Jumoer_1
24	Fiducial 1mm			FidB1, FidT1, FidT2, FidT3	Fiducial 1mm	4	Fiducial
25	LED			FLTN	LEDC2012X90N	1	LSM0805412V
26	LED			FLTN_SAFE	LEDC2012X90N	1	LSM0805463V
27	Connector			GND1, GND2, GND3, GND4, GND_DIV	TEST POINT KEYSTONE_4952	5	4952
28	board spacers			H1, H2, H3, H4	Distanziale_M3x10_NYLON	4	Board spacers

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29	FUSE_ITV4030			ITV1	FUSE_ITV4030	1	ITV4030L2015NR
30	Connector			J3	1725740	1	1725740
31	Connector			J4	SIP7 - MALE	1	CON7
32	Connector			J5	SIP4	1	CON4
33	Connector			J8, J13	1725656	2	1725656
34	Connector			J11	SAMTEC_MTSW-111-12-G-S-235-RA	1	MTSW-111-12-G-S-235-RA
35	Connector			J12	MTSW-102-10-T-S-125-NA	1	MTSW-102-10-T-S-125-NA
36	3 Positions Header Connector 0.100" (2.54mm) Through Hole Gold			J_FUSE, JC11	Strip_1x3+jumper_2.54mm	2	Jumper 1x3 Pin 100Mil
37	Inductor			L1	0603_F	1	MLZ1608A1R0MT000
38	LED			LED_TST, VREG_LED	LEDC2012X50N	2	KPHCM-2012CGCK
39	NET_TIE_diffpair			NT_N1, NT_P1	NET_TIE_DIFFPAIR	2	NET_TIE_diffpair
40	TRIMMER 30K OHM 0.5W PC PIN TOP			NTC_TRIM1	PCBComponent_1 - duplicate	1	CMP-07234-000018-1
41	MOSFET (N-Channel)			Q1, Q2, Q3, Q4	PowerFlat_5x6	4	STL130N6F7
42	MOSFET (N-Channel)			Q5	DDPAK	1	STD47N10F7AG
43	Resistor MR06X205 JTL	2M	125 mW	R1	1206_R	1	Resistor
44	Resistor MR06X205 JTL	2M	125 mW	R2	1206_R	1	Resistor
45	Resistor	2.2 Ω	–	R3	0805_R	1	ERJ-6GEYJ2R2V
46	Resistor ERJ-6ENF4701V	4.7 k Ω	–	R4	R0805-RS	1	ERJ-6ENF4701V
47	Resistor SG732ATTD153K, Resistor	15 k Ω	250 mW	R5, R7	0805_R	2	Resistor
48	Resistor	3.3 k Ω	–	R6	2512_R	1	35223K3JT
49	Resistor SG732ATTD105K	1 M Ω	125 mW	R8	0805_R	1	Resistor
50	Resistor	33 k Ω	100 mW	R9	0603_R	1	Resistor
51	Resistor	10 k Ω	100 mW	R10, R37	0603_R	2	Resistor
52	Resistor- https://www.mouser.it/ProductDetail/Panasonic/ERJ-P06J390V?qs=sGAEpiMZZMtlubZbdhIBINuoixlUI6fxUbhxL6846w0%3D	39 Ω	– ($\approx$ 0.5 W)	R11, R12, R13, R14, R15, R16, R18, R21, R23, R24, R25	0805_R	11	ERJ-P06F39R0V
53	Resistor	47 Ω	–	R17, R22	0402_R	2	ERA-2VEB47R0X
54	Resistor	10 m Ω	– ($\sim$ 10 W)	R19, R20	2818_R	2	WSHP2818R0100FEB
55	Resistor	1 k Ω	–		0805_R	10	CRCW08051K00FKEA

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				R26, R27, R28, R29, R30, R31, R32, R33, R34, R35			
56	Resistor	1 k Ω	100 mW	R36	0603_R	1	Resistor
57	Resistor	100 k Ω	100 mW	R38	0603_R	1	Resistor
58	Resistor	4.7 k Ω	–	R39, R40, R44, R45	0603_R	4	SG731JTDD472K
59	Resistor	100 Ω	–	R41	0805_R	1	SG732ATTD101K
60	Resistor	1.2 k Ω	–	R42, R43	RESC1608X55N	2	ESR03EZPF1201
61	RES SMD 3.3K OHM 5% 1/2W 0805	3.3 k Ω	0.5 W	R_LED1, R_LED2	ERJP06D1000V	2	ERJ-P06J332V
62	Thermistor			RT	0805_R	1	NTCS0805E3103GHT
63	Switch			S1	SWITCH_4-PIN_SMD_KSC	1	KSC701JLFS
64	L9962			U1	TQFP-48L	1	UR9L_2
65	Zener Diode			Z1	SOD-123	1	MMSZ4701T1G
66	full thread steel grade 8.8			zinc-plated		4	