

Document reference: Nov/26/2024 Ver. 1 Company: www.st.com STMicroelectronics				Product reference: EVLDRIIVE102BH			 life.augmented
Index	Quantity	Reference	Part Value	Description	Package	Manufacturer	
1	1	CN1	3P Screw Terminal	Horizontal Entry Modular w. Rising Cage Clamp, Serie 2135 - 5.08 mm	Pitch 5.08 mm	WURTH ELEKTRONIK	691213510003
2	1	CN2	STRIP 1x2	Strip connector 2 pos, 2.54 mm	1x2 pins	WURTH ELEKTRONIK	61300211121
3	1	CN3	2P Screw Terminal	Horizontal Entry Modular w. Rising Cage Clamp, Serie 2135 - 5.08 mm	Pitch 5.08 mm	WURTH ELEKTRONIK	691213510002
4	1	CN4	STRIP 1x5	Strip connector 5 pos, 2.54 mm	1x5 pins	WURTH ELEKTRONIK	61300511121
5	2	CN7, CN10	Header F 19x2	Elevated Socket Strip, 0.100" Pitch	2x19 pins	Samtec	ESQ-119-37-L-D
6	3	C1, C7, C8	4.7 uF / 25 V	SMT ceramic capacitor	Size 0603		
7	4	C2, C27, C32, C34	47 nF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012206069
8	4	C3, C4, C11, C12	22 nF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012206067
9	4	C5, C13, C14, C15	220 nF / 100 V	SMT ceramic capacitor	Size 0805		
10	1	C6	1 uF / 50 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012206126
11	2	C9, C10	100 nF / 100 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012206120
12	2	C16, C17	1 uF / 100 V	SMT ceramic capacitor	Size 1206		
13	2	C18, C19	220 uF / 63 V	THT Electrolytic Capacitor	Radial THT Diam.10 mm pitch 5 mm	WURTH ELEKTRONIK	860020775019
14	3	C20, C21, C22	22 pF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012006034
15	6	C23, C24, C25, C26, C31, C33	330 pF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012006041
16	3	C28, C29, C30	1.5 nF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012206060
17	4	D1, D2, D3, D4	BAT30	Small signal Schottky diodes	SOD-523	STMicroelectronics	BAT30KFILM
18	11	JP1, JP5, JP11, JP12, JP13, JP14, JP15, JP16, JP17, JP18, JP19	short pin 1-2	SMT solder jumper 2 ways/ 3 pads			
19	2	JP2, JP7	short	SMT solder jumper			
20	6	JP3, JP4, JP6, JP8, JP9, JP10	open	SMT solder jumper			
21	1	LED1	RED	WL-SMCW SMT Mono-color Chip LED Waterclear	Size 0805	WURTH ELEKTRONIK	150080RS75000
22	1	LED2	YELLOW	WL-SMCW SMT Mono-color Chip LED Waterclear	Size 0805	WURTH ELEKTRONIK	150080YS75000
23	1	LED3	GREEN	WL-SMCW SMT Mono-color Chip LED Waterclear	Size 0805	WURTH ELEKTRONIK	150080GS75000
24	1	NTC1	10 kΩ	NTC Thermistor	Size 0603	Murata	NCP18XH103F03RB
25	6	Q1, Q2, Q3, Q4, Q5, Q6	STL220N6F7	N-channel 60 V, 1.2 mOhm typ., 120 A, STripFET™ F7 Power MOSFET	PowerFLAT 5X6	STMicroelectronics	STL220N6F7
26	4	R1, R2, R3, R5	33 kΩ	SMT resistor	Size 0603		
27	3	R4, R6, R14	2.2 kΩ	SMT resistor	Size 0603		
28	2	R7, R8	30 kΩ	SMT resistor	Size 0603		
29	1	R9	15 kΩ	SMT resistor	Size 0603		
30	1	R10	7.5 kΩ	SMT resistor	Size 0603		
31	1	R11	120 kΩ	SMT resistor	Size 0603		
32	1	R12	56 kΩ	SMT resistor	Size 0603		
33	1	R13	3.3 kΩ	SMT resistor	Size 0603		
34	3	R15, R16, R17	5 mΩ / 3 W	SMT resistor	Size 2512	Bourns	CRE2512-FZ-R005E-3
35	1	R18	47 kΩ / 0.33 W	SMT resistor	Size 0805		
36	6	R19, R20, R21, R22, R23, R24	24 kΩ	SMT resistor	Size 0603		
37	9	R25, R26, R27, R28, R29, R30, R37, R38, R39	1 kΩ	SMT resistor	Size 0603		
38	6	R31, R32, R33, R34, R35, R36	12 kΩ	SMT resistor	Size 0603		
39	5	R41, R42, R44, R46, R47	0 Ω	SMT resistor	Size 0603		
40	2	R43, R45	Not mounted	SMT resistor	Size 0603		
41	3	R48, R56, R59	22 kΩ	SMT resistor	Size 0603		
42	4	R49, R50, R51, R61	4.7 kΩ	SMT resistor	Size 0603		
43	3	R52, R57, R62	1.5 kΩ	SMT resistor	Size 0603		
44	3	R53, R54, R55	330 Ω	SMT resistor	Size 0603		
45	1	R58	75 kΩ	SMT resistor	Size 0603		
46	1	R60	1.3 kΩ	SMT resistor	Size 0603		
47	26	TP1, TP2, TP3, TP4, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP23, TP24, TP25, TP26, TP27, TP28, TP29		Test point SMD 50 mils (1.27 mm) SMD PAD			
48	3	TP5, TP21, TP22	TP-SMD-S1751-46R	65x128 mils SMD Hardware Test Points	SMD 65x128 Pad	HARWIN	S1751-46R
49	1	U1	STDRIIVE102BH	Three-phase gate driver	QFN 6x6 pitch 0.4 mm	STMicroelectronics	STDRIIVE102BH