

Document reference: Nov/26/2024 Ver. 1				Product reference: EVLDRIIVE102H			 life.augmented
Company: www.st.com							
STMicroelectronics							
Index	Quantity	Reference	Part Value	Description	Package	Manufacturer	Part Number
1	1	CN1	STRIP 1x2	Strip connector 2 pos, 2.54 mm	1x2 pins	WURTH ELEKTRONIK	61300211121
2	1	CN2	3P Screw Terminal	Horizontal Entry Modular w. Rising Cage Clamp, Serie 2135 - 5.08 mm	Pitch 5.08 mm	WURTH ELEKTRONIK	691213510003
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	3	C2, C20, C26	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	4	C21, C25, C30, C31	330 pF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012006041
15	1	C22	220 nF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012206073
16	1	C23	100 nF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012206071
17	1	C24	10 pF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012006032
18	3	C27, C28, C29	1.5 nF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012206060
19	4	D1, D2, D3, D4	BAT30	Small signal Schottky diodes	SOD-523	STMicroelectronics	BAT30KFILM
20	11	JP1, JP5, JP12, JP13, JP14, JP15, JP16, JP17, JP18, JP19, JP20	short pin 1-2	SMT solder jumper 2 ways/ 3 pads			
21	4	JP2, JP7, JP8, JP9	short	SMT solder jumper			
22	5	JP3, JP4, JP6, JP10, JP11	open	SMT solder jumper			
23	1	LED1	RED	WL-SMCW SMT Mono-color Chip LED Waterclear	Size 0805	WURTH ELEKTRONIK	150080RS75000
24	1	LED2	GREEN	WL-SMCW SMT Mono-color Chip LED Waterclear	Size 0805	WURTH ELEKTRONIK	150080GS75000
25	1	NTC1	10 kΩ	NTC Thermistor	Size 0603	Murata	NCP18XH103F03RB
26	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
27	3	R1, R2, R3	33 kΩ	SMT resistor	Size 0603		
28	2	R4, R12	2.2 kΩ	SMT resistor	Size 0603		
29	2	R5, R6	30 kΩ	SMT resistor	Size 0603		
30	1	R7	15 kΩ	SMT resistor	Size 0603		
31	1	R8	7.5 kΩ	SMT resistor	Size 0603		
32	1	R9	120 kΩ	SMT resistor	Size 0603		
33	1	R10	56 kΩ	SMT resistor	Size 0603		
34	1	R11	3.3 kΩ	SMT resistor	Size 0603		
35	2	R13, R14	10 mΩ / 3 W	SMT resistor	Size 2512	Bourns	CRA2512-FZ-R010ELF
36	1	R15	47 kΩ / 0.33 W	SMT resistor	Size 0805		
37	1	R16	75 kΩ	SMT resistor	Size 0603		
38	1	R17	4.3 kΩ	SMT resistor	Size 0603		
39	6	R18, R19, R24, R25, R27, R28	24 kΩ	SMT resistor	Size 0603		
40	1	R20	220 Ω	SMT resistor	Size 0603		
41	3	R21, R22, R23	1 kΩ	SMT resistor	Size 0603		
42	1	R26	1.2 kΩ	SMT resistor	Size 0603		
43	1	R29	91 Ω	SMT resistor	Size 0603		
44	5	R30, R31, R32, R33, R34	0 Ω	SMT resistor	Size 0603		
45	2	R35, R36	Not mounted	SMT resistor	Size 0603		
46	3	R37, R44, R47	22 kΩ	SMT resistor	Size 0603		
47	3	R38, R46, R48	1.5 kΩ	SMT resistor	Size 0603		
48	3	R39, R40, R41	4.7 kΩ	SMT resistor	Size 0603		
49	3	R42, R43, R45	330 Ω	SMT resistor	Size 0603		
50	27	TP1, TP2, TP3, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP22, TP23, TP24, TP25, TP26, TP27, TP28, TP29, TP30		Test point SMD 50 mils (1.27 mm) SMD PAD			
51	3	TP4, TP20, TP21	TP-SMD-S1751-46R	65x128 mils SMD Hardware Test Points	SMD 65x128 Pad	HARWIN	S1751-46R
52	1	U1	STDRIVE102H	three-phase gate driver	QFN 5x5 pitch 0.4 mm	STMicroelectronics	STDRIVE102H