

Document reference: Dec/11/2020 Ver.2	Product reference: EVSTDRIVEG600DG	 life.augmented
Company: www.st.com STMicroelectronics		

Reference	Part Value	Description	Package	Manufacturer	Part Number
CN1	MMCX conn.	MMCX Straight PC Mount Jack Receptacle		Cinch	135-3701-201 or equivalent
CN2	N.M.	MMCX Straight PC Mount Jack Receptacle		(Cinch)	(135-3701-201 or equivalent)
C1,C2,C5,C6,C23,C25	100nF/25V/X7R	SMT ceramic capacitor	Size 0603		
C3,C7	330pF/X7R	SMT ceramic capacitor	Size 0603		
C8,C20,C22	22pF/25V	SMT ceramic capacitor	Size 0603		
C10,C12	1uF/25V/X5R	SMT ceramic capacitor	Size 0805		
C13	47nF/25V/X7R	SMT ceramic capacitor	Size 0402		
C14,C18	N.M.	SMT ceramic capacitor	Size 0402		
C15	4.7uF/50V	SMT ceramic capacitor	Size 0805		
C16,C17	47nF/25V/X7R	SMT ceramic capacitor	Size 0402		
C19	1nF/25V	SMT ceramic capacitor	Size 0603		
C21	1uF/10V/X7R	SMT ceramic capacitor	Size 0603		
C24	470nF/630V/X7R	SMT ceramic capacitor	Size 2225		
D1,D2	BAS70J	Low capacitance, low series inductance and resistance Schottky diodes	SOD-323	STMicroelectronics	BAS70JFILM
D3	N.M.	Fast Rectifier, TUMD2SM	TUMD2SM		
or	N.M.	Fast Rectifier, SMA	SMA (DO-214AC)		
D4	PLVA662A	6.2V Low-voltage avalanche regulator diodes	SOT23	Nexperia	PLVA662A or equivalent
D5	N.M.	6.2V Low-voltage avalanche regulator diodes	SOT23	(Nexperia)	(PLVA662A or equivalent)
JP1	OPEN	SMT jumper	Soldering pads		
J1	MORSV-508-2P_screw	Terminal block T.H. 2 positions, 5.08 mm	Pitch 5.08 mm	Phoenix Contact	1715721 or equivalent
J2	STRIP 1x9	Strip connector 9 pos, 2.54 mm	1x9 pins	Amphenol FCI	68000-409HLF or equivalent
J3	N.M.	Strip connector 4 pos, 2.54 mm	1x4 pins	(Amphenol FCI)	(68000-404HLF or equivalent)

Reference	Part Value	Description	Package	Manufacturer	Part Number
J4,J5,J6,J8	STRIP 1x3	Strip connector 3 pos, 2.54 mm	1x3 pins	Amphenol FCI	68000-403HLF or equivalent
J7	STRIP 1x2	Strip connector 2 pos, 2.54 mm	1x2 pins	Amphenol FCI	68000-402HLF or equivalent
Q1,Q2	GS-065-011-1-L	Bottom-side cooled 650 V E-mode GaN transistor	5x6 mm	GaN Systems	GS-065-011-1-L-TR / MR
Q3	N.M.	NPN General Purposes Transistor	SOT23		(BC847B or equivalent)
R1,R2	0R	SMT resistor	Size 0402		
R3,R6,R17,R18	N.M.	SMT resistor	Size 0603		
R4,R7	47R	SMT resistor	Size 0603		
R8	47k	SMT resistor	Size 0603		
R9	N.M.	SMT resistor	Size 0603		
R10,R12	50R	SMT resistor	Size 0402		
R11,R13	1R	SMT resistor	Size 0402		
R14	10k	SMT resistor	Size 0603		
R15	1k	SMT resistor	Size 0603		
R16,R26,R27,R28,R29	0R	SMT resistor	Size 0603		
R19,R20	10M	SMT resistor	Size 1206		
R21,R22,R23,R30	0R	SMT resistor	Size 0805		
R24	10R	SMT resistor	Size 0603		
R25	10R	SMT resistor	Size 0805		
TP1,TP2,TP3,TP4,TP5,TP6,TP8,TP9,TP10,TP11,TP12	N.M.	TP for Probe	Metallized Hole 0.8mm		
TR1,TR2	1K	5 mm Square Surface Mount Miniature Trimmers Multi-Turn Cermet Sealed	TSM4YJ	VISHAY	TSM4YJ102KB25 or equivalent
U1,U2,U4	74LVC1G17W5	SINGLE SCHMITT-TRIGGER BUFFER	SOT23-5L (SOT25)	Diodes Incorporated	74LVC1G17W5 / -7 or equivalent
U3	74LVC1G14W5	SINGLE SCHMITT-TRIGGER INVERTER	SOT23-5L (SOT25)	Diodes Incorporated	74LVC1G14W5 / -7 or equivalent
U5	ST715M33R	High input voltage, 85 mA LDO linear regulator	SOT23-5L	STMicroelectronics	ST715M33R
U6	STDRIVEG600	High voltage and high-speed half-bridge gate driver	SO-16	STMicroelectronics	STDRIVEG600D
		P.C.B. EVSTDRIVEG600DG Rev.2.0	50x70 mm	STMicroelectronics	