

Bill of materials
Table 1. STDES-VIPGAN65F bill of materials

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	1	BD1	TT8MF	bridge rectifiers	MDD	TT8MF
2	2	C1,C32	100pF 500V	MLCC	YAGEO	CC0805JRNPOBBN101
3	3	C2,C4, C16	4.7uF 25V	MLCC	SAMSUNG	CL10A475KA8NQNC
4	1	C3	1uF 10V	MLCC	SAMSUNG	CL05A105KP5NNNC
5	1	C5	1nF50V	MLCC	YAGEO	CC0402KRX7R9BB102
6	1	C6	100nF25V	MLCC	YAGEO	CC0402KRX7R8BB104
7	1	C7	22nF50V	MLCC	YAGEO	CC0402KRX7R9BB223
8	2	C8, C9	22nF500V	MLCC	YAGEO	CC0805KXX7RBBB223
9	1	C10	47pF 1kV	MLCC	YAGEO	CC1206JKNPOCBN470
10	1	C11	220pF50V	MLCC	YAGEO	CC0402JRNPO9BN221
11	1	C12	1nF250V	MLCC	YAGEO	CC0805KRX7RYBB102
12	1	C13	15nF50V	MLCC	YAGEO	CC0402KRX7R9BB153
13	1	C14	1uF 25V	MLCC	SAMSUNG	CL21B105KAFNNNE
14	1	C15	10uF25V	MLCC	SAMSUNG	CL31A106KAHNNNE
15	0	C17	NC	MLCC		NC
16	1	C18	10pF 1kV	MLCC	YAGEO	CC1206JKNPOCBN100
17	0	C20	NC	MLCC		NC
18	1	C19	470pF 200V	MLCC	YAGEO	CC0805KRX7RABB471
19	1	C22	100nF50V	MLCC	YAGEO	CC0805KRX7R9BB104
20	1	D1	RS1ML	fast recovery diode	CJ	RS1ML
21	1	D2	B5819WS	fast recovery diode	CJ	B5819WS
22	1	D3	RS2MF	fast recovery diode	PANJIT	RS2MF-LE_R1_00001
23	1	D4	SM4T26CAY, SMAF	fast recovery diode	ST	SM4T26CAY
24	1	D8	ES1JL	fast recovery diode	CJ	ES1JL
25	0	L1, N1	NC			NC
26	1	L3	PZ3216D190-6R0 TF	magnetic bead	Sunlord	PZ3216D190-6R0TF
27	0	P1, P2, P3	NC			NC
28	1	Q1	BSS169H6327XT SA1	depletion type NMOS tube	Infineon	BSS169H6327
29	1	Q2	SISH101DN-T1-GE3	PMOS VDS30V	VISHAY	SISH101DN-T1-GE3
30	1	Q3	NTMFS006N12MCT1G	NMOS VDS120V	onsemi	NTMFS006N12MCT1G

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
31	2	R1, R8	10R		UNI-ROYAL	0805W8F100JT5E
32	2	R2, R11	2.2R		UNI-ROYAL	0805W8F220KT5E
33	1	R3	51K		UNI-ROYAL	0603WAF5102T5E
34	1	R4	270k		UNI-ROYAL	0603WAF2703T5E
35	1	R5	4k3		UNI-ROYAL	0402WGF4301TCE
36	1	R6	510k		UNI-ROYAL	0805W8F5103T5E
37	2	R7, R25	4.7Meg		YAGEO	RC1206FR-074M7L
38	1	R9	1k		UNI-ROYAL	0402WGF1001TCE
39	1	R10	7.5k		UNI-ROYAL	0402WGF7501TCE
40	1	R12	75k		UNI-ROYAL	0402WGF7502TCE
41	2	R13,R28	47k		UNI-ROYAL	0402WGF4702TCE
42	4	R14, R19, R20, R33	10Meg		UNI-ROYAL	0805W8F1005T5E
43	1	R15	10R		UNI-ROYAL	0402WGF100JTCE
44	2	R16, R22	330K		UNI-ROYAL	1206W4F3303T5E
45	1	R17	22k		UNI-ROYAL	0402WGF2202TCE
46	1	R18	100R			1210W2F1000T5E
47	1	R21	390R		UNI-ROYAL	0805W8F3900T5E
48	1	R23	150R		UNI-ROYAL	1206W4F1500T5E
49	1	R26	4.7R		UNI-ROYAL	0805W8F470KT5E
50	1	R27	PE1206FKE470R01Z	alloy resistance	YAGEO	PE1206FKE470R01Z
51	1	R29	100R		UNI-ROYAL	0402WGF1000TCE
52	1	R30	10k		UNI-ROYAL	0402WGF1002TCE
53	1	R31	1k 1%		UNI-ROYAL	0603WAF1001T5E
54	0	R32	NC			NC
55	1	R34	15K 1%		UNI-ROYAL	0402WGF1502TCE
56	1	R35	470R		UNI-ROYAL	0402WGF4700TCE
57	1	U1	EL1018(TA)-VG		EVERLIGHT	EL1018(TA)-VG
58	1	U2	VIPERGAN65TR, GQFN(5x6)		ST	VIPERGAN65TR
59	1	U3	SRK1004DTR, DFN2x2x0.75, 6L(EP)		ST	SRK1004DTR
60	1	ZD1	TDZ15J,115	voltage-regulator diode	Nexperia	TDZ15J,115
61	1	ZD2	BZX84J-B6V8,115	voltage-regulator diode	Nexperia	BZX84J-B6V8,115
62	1	LF1	PDMCAT953-201 MLN	common mode choke	PROD	PDMCAT953-201MLN
63	1	LF2	XRSQ1212-8mH-V	common mode choke	XR	XRSQ1212-8mH-V
64	3	EC1, EC2, EC3	39uF/400V		Ymin	KCX 39uF400V 10*17
65	1	EC4	47uF/400V		Ymin	KCM 47uF400V 12.5*18

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
66	1	EC5	15uF100V		Ymin	LKMB1102A150MF
67	3	EC6, EC7, EC8	560uF/25V		Ymin	NPX 25V 5.5*15 560uF
68	1	Fu1	3.15A - 250Vac	Glass fuse with heat shrink bushing	Reomax	PTU1315P
69	1	J1	PD board, PD_BOARD_female2		ST	PCBA from Pdboard
70	1	CY1	220pF 400V Y1		STE	Q07B3D221KA5B0S0N0
71	0	CY2	NC		STE	NC
72	1	T1	7508413400,Rev02		wurth	7508413400,Rev02
73	1	CX1	470nF 305Vac X2		KNSCHA	MPX474K31C6KN206G0
74	1	L2	XR6*8-180K-L		XR	XR6*8-180K-L

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