

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

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	4	R13,R14,R21,R22	2.2K	R0603	YAGEO	RC0603FR-072K2L
2	6	KEY1,KEY2,KEY3,KEY4,KEY_NRST1,KEY_PRG	K2-3.6×6.1_SMD	KEY-SMD_2P-L6.2-W3.6-LS8.0	Rectangular Connectors - Contacts	K2-1107ST-A4SW-06
3	3	LED1,LED2,LED3	LED-0603_R	LED0603_RED	EVERLIGHT(台湾 白光)	19-217/R6C-AL1M2VY/3T
4	7	R16,R26,R27,R17,R18,R19,R20	2.2k	R0603	YAGEO	RC0603FR-072K2L
5	8	LED4,LED5,LED6,LED7,LED8,LED9,LED10,LED11	SK6812D-EC3210R	LED-SMD_4P_SK6812D-EC3210R	欧思科光口	SK6812D-EC3210R
6	1	R30	68k	R0805	UniOhm	0805W8F6802T5E
7	1	R31	13k	R0805	UniOhm	0805W8F1302T5E
8	3	FB1,FB2,FB3	120Ω@100MHz ±25%	L0603	muRata(村田)	BLM18KG121TN1D
9	1	C1	10uF/50V	C1206	Murata Electronics	GRM31CB31H106KA12L
10	1	C2	470nF/35V	C0603	SAMSUNG(三星)	CL21B474KBFNNNE
11	2	C3,C5	47nF/35V	C0603	MuRata	GRM188F11H473ZA01D
12	1	C4	220uF/35V	CAP-SMD_BD8.0-L8.3-W8.3-LS9.5-FD	ST(先科)	LZ1V221M-CRF10
13	1	C6	10nf/50V	C0603	MuRata	GRM188R71H103KA01D
14	12	C7,C14,C15,C16,C17,C18,C19,C20,C30,C44,C45,C50	100nF	C0603	okGEO	CC0603KRX7R9BB104
15	1	C8	100nF/6.3V	C0603	YAGEO	CC0603KRX7R9BB104
16	4	C9,C29,C43,C46	4.7uF	C0603	Murata Electronics	GRM188R6YA475ME15D
17	2	C10,C12	100nF/50V	C0603	YAGEO	CC0603KRX7R9BB104
18	1	C11	1nF	C0603	SAMSUNG(三星)	CL10B102KB8NNNC
19	1	C13	11pF	C0603	SAMSUNG(三星)	CL10C110JB8NNNC
20	2	C21,C37	10uF	C0805	Murata Electronics	GRM21BR61H106KE43L
21	2	C22,C26	1uF	C0805	SAMSUNG	CL21B105KBFNNNE
22	1	C23	47uF	CAP-SMD_BD6.3-L6.6-W6.6-FD	PANASONIC	EEE1VA470WAP
23	2	C27,C28	12pF	C0603	SAMSUNG(三星)	CL10C120JB8NNNC
24	1	C33	56pF	C0603	SAMSUNG(三星)	CL10C560JB8NNNC
25	1	C34	22uF	C0805	SAMSUNG(三星)	CL21A226MAQNNNE
26	1	C38	1uF	C0805	SAMSUNG(三星)	CL21B105KBFNNNE
27	2	C39,C40	22pf	C0603	Murata Electronics	GQM1875C2E220JB12D
28	1	C47	100nf	C0603	YAGEO	CC0603KRX7R9BB104

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
29	5	D1,D2,D3,D4,D5	TS4148	D1206-RD	Taiwan Semiconductor(Taiwan Semicon)	TS4148 RXG
30	2	D6,D7	SMAJ40CA-TR	SMA_L4.4-W2.6-LS5.0-BI	ST	SMAJ40CA-TR
31	7	R1,R7,R8,R9,R10,R11,R12	0R	R0603	YAGEO	RC0603FR-070RL
32	1	R2	68R	R2512	YAGEO	AC2512FK-0768RL
33	1	R3	10K	R0603	YAGEO	RC0603JR-0710KL
34	2	R4,R5	1k	R0603	YAGEO	RC0603FR-071KL
35	1	R6	4.7M	R0603	Tyohm	RMC06034.7M1%N
36	1	R15	82k	R0603	UniOhm	0603WAF8202T5E
37	1	R23	1.07M	R0603	PANASONIC(松下)	ERJ3EKF1071V
38	1	U1	STKNXTR	VFQFPN-24_L4.0-W4.0-P0.50-BL-EP2.8	ST	STKNXTR
39	2	U2,U3	STISO621	SOP8	ST	STISO621
40	1	U4	L6981NDR	SO_8L_L6981	ST	L6981NDR
41	1	U6	ST1S40IDR	SOIC-8_L4.9-W3.9-P1.27-LS6.0-BL	ST	ST1S40IDR
42	1	U8	STM32G071CBT6	LQFP-48_L7.0-W7.0-P0.50-LS9.0-BL	ST	STM32G071CBT6
43	1	U9	LD39015M33R	SOT-23-5_L3.0-W1.7-P0.95-LS2.8-BL	ST	LD39015M33R
44	1	U10	MT6701CT-STD	SOP-8_L4.9-W3.9-P1.27-LS6.0-BL	MagnTek(麦歌恩)	MT6701CT-STD
45	1	U11	SN74LV1T34DBV RG4	SOT-23-5_L3.0-W1.7-P0.95-LS2.8-BR	TI(德州仪器)	SN74LV1T34DBVRG4
46	3	H1,H2,H3	HDR-M-2.54_1x2	HDR-TH_2P-P2.54-V-M-1	Ckmtw	210S-1*2P L=11.6MMGold-plated black
47	1	H4	HDR-M-2.54_1x4	HDR-M-2.54_1X4	Ckmtw	210S-1*4P L=11.6MMGold-plated black
48	1	H6	Header-M-2.54_1x8	HDR-TH_8P-P2.54-V-M	Ckmtw	210S-1*8P L=11.6MMGold-plated black
49	1	H9	HDR-M-2.54_1x5	HDR-TH_5P-P2.54-V-M	Ckmtw	210S-1*5P L=11.6MMGold-plated black
50	1	L1	270uH	IND-SMD_L10.2-W10.0	Sumida	CDRH105RNP-271NC
51	1	L2	10uH	IND-SMD_L6.4-W6.0	PANASONIC	ETQP3M100KVN
52	1	X1	32.768kHz	FC-135R_L3.2-W1.5	EPSON	Q13FC1350000400
53	1	X2	16MHz	OSC-SMD_4P-L3.2-W2.5-BL	EPSON	X1E000021011900

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