

## X-NUCLEO-LED16A1

### BILL OF MATERIALS

Item	Quantity	Reference	Manufacturer	Part Number	Value / Voltage / Watt / Ampere / Tolerance	Package	Type / TECHNOLOGY informations
1	1	U1	ST	LED1642GWXTTR		TSSOP24 exposed pad	16 Channel LED Driver
2	1	D3	ST	STPS1L30A		SMA	Schottky
3	14	R2,R5,R23,R24,R25,R26,R30,R33,R34,R35,R36,R37,R38,R39	ANY	ANY	0E	SMD-0805	
4	5	R7,R10,R13,R16,R19	ANY	ANY	33E	SMD-0805	
5	11	R8,R9,R11,R12,R14,R15,R17,R18,R20,R21,R22	ANY	ANY	15E	SMD-0805	
6	1	R3	ANY	ANY	560E, ±5%	SMD-0805	
7	1	R4	ANY	ANY	470E, ±5%	SMD-0805	
8	1	R1	ANY	ANY	11K, ±5%	SMD-0805	
9	2	R27,R31			DNM		
10	2	C1,C3	ANY	ANY	100nF, 16V, ±10%	SMD-0805	Ceramic
11	1	C2	ANY	ANY	10uF, 16V, ±10%	SMD-0805	Ceramic
12	1	C4	ANY	ANY	10uF, 35V, ±10%	SMD-0805	Ceramic
13	1	D1	ANY	ANY	LED (RED)	SMD-0805	
14	1	D2	ANY	ANY	LED (GREEN)	SMD-0805	
15	1	J1	ANY	ANY	16-Pin BergStick Male, ,	2.54mm Pitch, Through Hole	2.54mm Pitch, Right Angle
16	3	J2,J3,J4	ANY	ANY	3-Pin BergStick Male, ,	2.54mm Pitch, Through Hole	2.54mm Pitch
17	1	CN1	Sullins Connector Solutions	NPTC021KFXC-RC	2-Pin BergStick Female	SMD	2.54mm Pitch
18	1	CN2	SAMTEC	SSQ-102-03-F-S	CON2	Through Hole	2.54mm Pitch
19	1	CN11	Molex	0878980204/MM9852-ND	2-Pin BergStick Male	SMD	2.54mm Pitch
20	1	CN3	On Shore Technology Inc.	OSTVN02A150	Terminal Block	2.54mm Pitch, Through Hole	2.54mm Pitch
21	1	CN4	ANY	ANY	2-Pin BergStick Male	2.54mm Pitch, Through Hole	2.54mm Pitch, Right Angle
22	1	CN5	SAMTEC	SSQ-110-03-F-S	CON10	Through Hole	
23	2	CN6,CN9	SAMTEC	SSQ-108-03-F-S	CON8	Through Hole	
24	2	CN7,CN10	SAMTEC	SSQ-119-04-L-D	DNM	Through Hole	
25	1	CN8	SAMTEC	SSQ-106-03-F-S	CON6	Through Hole	

## X-NUCLEO-LED16A1 RGB LED's

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Item	Quantity	Reference	Manufacturer	Manufacturer's ordering code / Orderable Part Number	Part / Value	Package	Type / TECHNOLOGY informations
1	5	D1,D2,D3,D4,D5	Wurth Elektronik	150141M173100	RGB Led's	SMD, Dimensions as per Datasheet	Common Anode
2	1	J5	ANY	ANY	16-Pin BergStick Female	2.54mm Pitch, Through Hole	2.54mm Pitch, Right Angle
3	1	CN5	ANY	ANY	2-Pin BergStick Female	2.54mm Pitch, Through Hole	2.54mm Pitch, Right Angle