

Table 1: X-NUCLEO-PLM01A1 bill of materials

Item	Qty	Ref.	Part / Value	Description	Manufacturer	Order code
1	2	CN1, CN2	Screw connectors	2-way 3.81 mm PCB terminal block	Phoenix Contact	MKDS 1 /2-3.81
2	1	CN5	10 pins 10x1 - 2.54mm pitch	Arduino connector	SAMTEC	SSQ-110-03-F-S
3	2	CN6, CN9	8 pins 8x1 - 2.54mm pitch	Arduino connector	SAMTEC	SSQ-108-03-F-S
4	0	CN7, CN10	38 pins 19x2 - 2.54mm pitch	Morpho connectors	SAMTEC	SSQ-119-04-L-D
5	1	CN8	6 pins 6x1 - 2.54mm pitch	Arduino connector	SAMTEC	SSQ-106-03-G-S
6	1	C2	10 $\mu$ F, 50 V 1206	Chip capacitor		
7	1	C3	4.7 nF, 25 V 0603	Chip capacitor		
8	1	C6	10 nF, 25 V 0603	Chip capacitor		
9	1	C8	10 $\mu$ F, 25 V 1210	Chip capacitor		
10	1	C9	4.7 pF, C0G, 0402	Chip capacitor		
11	8	C10, C11, C13, C27, C30, C32, C34, C35	100 nF, 25 V 0402	Chip capacitor		
12	2	C12, C14	10 $\mu$ F, 6.3 V 0603	Chip capacitor		
13	2	C15, C23	68 pF, C0G 0402	Chip capacitor		
14	1	C16	27 pF, C0G 0402	Chip capacitor		
15	1	C20	100 nF, C0G 0402	Chip capacitor		
16	1	C21	100 nF, 25 V 0603	Chip capacitor		
17	1	C22	330 pF, C0G 0402	Chip capacitor		
18	1	C26	100 nF 0402	Chip capacitor		
19	1	C28	10 $\mu$ F, 10 V 0805	Chip capacitor		
20	1	C29	100 pF, C0G 0402	Chip capacitor		
21	1	C31	4.7 $\mu$ F, 4 V 0402	Chip capacitor		
22	1	DL1	SMD 0603	Green LED		
23	1	DL2	SMD 0603	Red LED		
24	2	D2,D3	STPS1L30A	SMB		
25	1	D4	SM6T6V8CA	SMB		

Item	Qty	Ref.	Part / Value	Description	Manufacturer	Order code
26	1	FB1	BLM21PG331SN1 0603	Ferrite bead		
27	2	J7, J8	3x1 2.54 mm pitch	Jumper		
28	2	JP9, JP10	2x1 2.54 mm pitch	Jumper		
29	1	L2	B82462G4224M 6.3x6.3 mm	SMD inductor		
30	2	RN2,RN3	10 K	Resistor array	BOURNS	CAY10-103J4LF
31	1	R5	150 R 0603	Chip resistor		
32	1	R6	33 k 0402	Chip resistor		
33	5	R9,R10,R23,R3	10 K 0402	Chip resistor		
34	1	R11	91 R 0402	Chip resistor		
35	3	R12,R58,R64	24 K 0402	Chip resistor		
36	1	R15	4k7 0402	Chip resistor		
37	1	R16	2 k 0402	Chip resistor		
38	2	R17,R19	47 K 0402	Chip resistor		
39	2	R31,R32	560 R 0402	Chip resistor		
40	0	R48,R66,R67	NOT MOUNTED	Chip resistor		
41	3	R68,R69,R70	0 R 0402	Chip resistor		
42	1	R73	330 R 0402	Chip resistor		
43	1	U2	ST7580	QFN48 with exposed pad		
44	1	Y3	8.0000 MHz HC49U	Quartz crystal	RS	478-9347