



Bill of materials

Table 1. X-NUCLEO-NFC12A1 bill of materials

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
1	5	C1, C5, C9, C11, C13	2u2	2u2_X5R	Murata	GRM155R60J225ME01D
					Würth Elektronik ⁽¹⁾	885012105013
2	2	C2, C8	100n	100n_X7R	Murata	GCM155R71H104KE02J
					Würth Elektronik ⁽¹⁾	885012205086
3	2	C3, C15	1u	1u_X5R	MURATA	GRM155R61C105KA12D
4	5	C4, C10, C12, C14, C16	10n	10n_x7R	AVX	04023C103KAT2A
					Würth Elektronik ⁽¹⁾	885012205050
5	2	C6, C7	12p	12p_COG	Murata	GCM1555C1H120FA16D
6	1	C17	47n	47n_X7R	Murata	GCM155R71E473KA55D
					Würth Elektronik ⁽¹⁾	885012205054
7	2	C18, C38	6p8	6.8p_COG	Murata	GCM1555C1H6R8BA16D
					Würth Elektronik ⁽¹⁾	885392005074
8	2	C19, C39	12p	12p_COG	Murata	GCM1555C1H120FA16D
9	2	C20, C40	27p	27p_COG	Murata	GCM1555C1H270FA16D
10	2	C21, C41	68p	68p_COG	Murata	GRT1555C1H680FA02J
11	2	C22, C37	150p	150p_COG	Murata	GCM1555C1H151FA16D
12	2	C23, C35	100p	100p_COG	Murata	GCM1885C2A101FA16D
13	2	C24, C36	10p	10p_COG	Murata	GCM1555C1H100FA16D
14	2	C25, C34	150p	150p_COG	KEMET	C0603C151F5GACTU
15	2	C26, C33	68p	68p_COG	KEMET	C0603C680F1GACTU
16	2	C27, C30	330p	330p_COG	YAGEO	CC0603FRNPO9BN331
17	2	C28, C31	130p	130p_COG	KEMET	C0603C131F5GACTU
18	2	C29, C32	6p8	6.8p_COG	KEMET	C0603C689J5GACTU
19	1	CN5		Header, 10-Pin, Single row, female	Samtec	SSQ-110-03-L-S
20	2	CN6, CN9		Header, 8-Pin, Single row, female	Samtec	SSQ-108-03-L-S
21	1	CN8		Header, 6-Pin, Single row, female	Samtec	SSQ-106-03-L-S
22	1	L1			muRata	BLM15EG121SH1D
23	2	L2, L3		LQW18CNR27J0ZD	Murata	LQW18CNR12J0ZD
24	6	LED1, LED2, LED3, LED4, LED5, LED6			Lite-On	LTST-C190TBKT
					Würth Elektronik ⁽¹⁾	150060BS75000
25	1	LED7			Lite-On	LTST-C190KGKT
					Würth Elektronik ⁽¹⁾	150060VS75000

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
26	2	P1, P2		U.FL-R-SMT-1	HIROSE(HRS)	U.FL-R-SMT-1(10)
					Würth Elektronik ⁽¹⁾	636101111001
27	8	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8		nCh MOS Fet	Diodes Incorporated	BSS123WQ-7-F
28	7	R1, R2, R3, R4, R5, R6, R16	1k	1k, 0402	Panasonic	ERJ2GEJ102X
					Würth Elektronik ⁽¹⁾	560112110012
29	1	R7	680R	680R, 0402	Yageo	RC0402JR-07680RL
					Würth Elektronik ⁽¹⁾	560112110024
30	8	R8, R9, R10, R11, R12, R18, R23, R24	0R	0R, 0402	VISHAY	CRCW04020000ZSTD
					Würth Elektronik ⁽¹⁾	560112110001
31	4	R21, R22, R14, R15	0R	0R, 0402	VISHAY	CRCW04020000ZSTD
					Würth Elektronik ⁽¹⁾	560112110001
32	1	R13	18k	18k, 0402	MULTICOMP	MCWR04X1802FTL
33	1	R17	330k	330k, 0402	VISHAY	CRCW0402330KFKED
					Würth Elektronik ⁽¹⁾	560112110088
34	2	R19, R20	2R2	2R2, 0603	Vishay Dale	CRCW06032R20FKEA
					Würth Elektronik ⁽¹⁾	560112116088
35	18	ST1, ST2, ST3, ST4, ST5, ST6, ST7, ST8, ST9, ST10, ST11, ST12, ST13, ST14, ST15, ST16, ST18, ST20		CONN HE14 2PTS MALE VERTICAL NOT FITTED		
36	1	U1	ST25R300-AQET QFN32	HF Reader IC QFN32	ST	ST25R300-AQET
37	1	X1		Tactile Switches WS-TASV Tact Switch	Würth Elektronik	435151014845
38	1	Y1		NX2016SA-27.12 MHZ-EXS00A-CS01188	NDK	CS01188-27.12M

1. Alternative manufacturer.

IMPORTANT NOTICE – READ CAREFULLY

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice.

In the event of any conflict between the provisions of this document and the provisions of any contractual arrangement in force between the purchasers and ST, the provisions of such contractual arrangement shall prevail.

The purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgment.

The purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of the purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

If the purchasers identify an ST product that meets their functional and performance requirements but that is not designated for the purchasers' market segment, the purchasers shall contact ST for more information.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, refer to www.st.com/trademarks. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2025 STMicroelectronics – All rights reserved