

Bill of materials
Table 1. X-STM32MP-NFC08 bill of materials

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	4	AAT_A1 AAT_B1 TP1 TP2	TEST POINT, PCB Pads	PCB Pads (not mounted)	PCB Pads	PCB Pads
2	1	ANTC1	ANT_NFC06, PCB Pads	PCB Pads (not mounted)	PCB Pads	PCB Pads
3	6	C1 C2 C3 C4 C5 C41	100nF, 0603 (1608 Metric), 16V, +/-10%	CAP CER 0.1UF 16V X7R 0603	KEMET	C0603C104K4RACTU
4	1	C6	1uF 0402, (1005 Metric), 16V, +/-10%	CAPACITOR CERAMIC SMD 0402	Murata Electronics	GRM155R61C105KA12D
5	7	C7 C8 C12 C16 C18 C19 C21	10nF, 0402 (1005 Metric), 25V, +/-10%	CAPACITOR CERAMIC SMD 0402	KYOCERA AVX	04023C103KAT2A
6	6	C9 C13 C17 C20 C22 C23	2.2uF, 0402 (1005 Metric), 6.3V, +/-20%	CAPACITOR CERAMIC SMD 0402	Murata Electronics	GRM155R60J225ME15D
7	1	C10	22nF, 0402 (1005 Metric), 16V, +/-10%	CAPACITOR CERAMIC SMD 0402	KYOCERA AVX	0402YC223KAT2A
8	2	C11 C15	2.2uF, 0402 (1005 Metric), 6.3V, +/-20%	CAPACITOR CERAMIC SMD 0402 (not mounted)	Murata Electronics	GRM155R60J225ME15D
9	1	C14	10nF, 0402 (1005 Metric), 25V, +/-10%	CAPACITOR CERAMIC SMD 0402 (not mounted)	KYOCERA AVX	04023C103KAT2A
10	4	C24 C25 C28 C39	10pF, 0603 (1608 Metric), 50V, +/-1%	CAPACITOR CERAMIC SMD 0603	MULTICOMP	MC0603N100F500CT
11	2	C26 C40	180pF, 0603 (1608 Metric), 50V, +/-2%	CAPACITOR CERAMIC SMD 0603	MURATA	GRM1885C1H181GA01D
12	3	C27 C33 C38	LXRW0YV600-054 , 0.024" L x 0.024" W (0.60mm x 0.60mm), 50 V	CAP TRIMMER 30-60PF 50V SMD	Murata Electronics	LXRW0YV600-054
13	2	C29 C37	100pF, 0603 (1608 Metric), 50V, +/-1%	CAPACITOR CERAMIC SMD 0603	MURATA	GRM1885C1H101FA01D
14	2	C30 C35	82pF, 0603 (1608 Metric), 50V, +/-1%	CAPACITOR CERAMIC SMD 0603	MURATA	GRM1885C1H820FA01D
15	2	C31 C36	56pF, 0603 (1608 Metric), 50V, +/-1%	CAPACITOR CERAMIC SMD 0603	MURATA	GRM1885C1H560FA01D
16	2	C32 C34	680pF, 0603 (1608 Metric), 50V, +/-2%	CAPACITOR CERAMIC SMD 0603	MURATA	GRM1885C1H681GA01D
17	1	CN2	Header 20X2_female Header 20X2_female_2.54 mm pitch	Double Row_Vertical_100"_E xtended Tail Connector	Samtec	SSQ-120-03-T-D

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
18	1	D1	BAV70W, SC-70, SOT-323, 1.25V @ 150mA, 150mA (DC)	Diode Array 1 Pair Common Cathode Standard 75 V 150mA Surface Mount	Infineon Technologies	BAV70W
19	1	D2	Green LED, 0603 (1608 Metric), 20mA	LED Green CLEAR 0603 SMD	Lite-On Inc.	LTST-C190KGKT
20	6	D3 D4 D5 D6 D7 D8	Blue LED, 0603 (1608 Metric), 20mA	LED Blue CLEAR 0603 SMD	Lite-On Inc.	LTST-C190TBKT
22	1	J1	3-pin Male Header_2.54mm pitch	CONN HEADER .100 STR 3POS	Samtec Inc.	TSW-103-07-F-S
24	2	J6 J8	con1-strip-male, 1-pin Male Header	CONN HEADER .100 STR 1POS	Molex	0022284010
25	1	J7	2-pin Male Header, pin Male Header_2.54mm pitch	Connector Header Through Hole 2 position 0.100" (2.54mm)	Molex	0022284020
26	2	L1 L2	270n, 0603 (16085 Metric)	FIXED IND 270NH 550MA 286MOHM SM	TDK Corporation	MLJ1608WR27JT000
27	2	P1 P2	U.FL-R-SMT-1(10), U.FL-R-SMT-1	CONN U.FL RCPT STR 50 OHM SMD (not mounted)	Hirose Electric Co Ltd	U.FL-R-SMT-1(10)
28	1	Q1	NX3008NBK, TO-236AB, SOT-23-3, 350mW (Ta)	MOSFET N-CH 30V 400mA SOT23	Nexperia	NX3008NBK,215
29	3	R1 R2 R42	1K, 0603 (1608 Metric), 0.1W, 1/10W, +/-1%	RES SMD 1K OHM 1% 1/10W 0603	Vishay Dale	CRCW06031K00FKEA
30	2	R3 R4	3.9K, 0603 (1608 Metric), 0.1W, 1/10W, +/-1%	RES SMD 3.9K OHM 1% 1/10W 0603	Yageo	RT0603FRE073K9L
31	3	R5 R6 R7	22K, 0603 (1608 Metric), 0.1W, 1/10W, +/-5%	RES SMD 22K OHM 5% 1/10W 0603 (not mounted)	Vishay Dale	CRCW060322K0JNEA
32	16	R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23	0603 (1608 Metric), 0.1W, 1/10W, +/-1%	RES SMD 0 OHM JUMPER 1/10W 0603	TE Connectivity Passive Product	CRG0603ZR
33	1	R24	0603 (1608 Metric), 0.1W, 1/10W, +/-1%	RES SMD 0 OHM JUMPER 1/10W 0603 (not mounted)	TE Connectivity Passive Product	CRG0603ZR
34	1	R25	0R, 0402 (1005 Metric), 0.063W, 1/16W, +/-1%	CHIP RESISTOR SMD 1% 1/16W 0402 (not mounted)	MULTICOMP	MC00625W040210R
35	1	R26	0R, 0402 (1005 Metric), 0.063W, 1/16W, +/-1%	CHIP RESISTOR SMD 1% 1/16W 0402	MULTICOMP	MC00625W040210R
36	2	R27 R28	1.65K, 0603 (1608 Metric), 0.1W, 1/10W, +/-1%	RES SMD 1.65K OHM 1% 1/10W 0603 (not mounted)	YAGEO	RT0603FRE071K65L

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
37	2	R29 R31	2.4R, 0603 (1608 Metric), 0.333W, 1/3W, +/-1%	CHIP RESISTOR SMD 1% 1/3W 0603	KOA	SG73P1JTDD2R40F
38	1	R30	0603 (1608 Metric), 0.1W, 1/10W, +/-1%	RES SMD 0 OHM JUMPER 1/10W 0603	TE Connectivity Passive Product	CRG0603ZR
39	1	R32	100R, 0402 (1005 Metric), 0.01W, 1/16W, +/-1%	CHIP RESISTOR SMD 1% 1/16W 0402	VISHAY	CRCW0402100RFKED
40	1	R33	47K, 0402 (1005 Metric), 0.063W, 1/16W, +/-1%	CHIP RESISTOR SMD 1% 1/16W 0402	VISHAY	CRCW040247K0FKTD
41	1	R34	680R, 0402 (1005 Metric), 0.063W, 1/16W, +/-5%	CHIP RESISTOR SMD 5% 1/16W 0402	Yageo	RC0402JR-07680RL
42	6	R35 R36 R37 R38 R39 R40	1K, 0402 (1005 Metric), 0.1W, 1/10W, +/-5%	CHIP RESISTOR SMD 5% 1/10W 0402	Panasonic	ERJ2GEJ102X
43	1	R41	4.7K, 0603 (1608 Metric), 0.1W, 1/10W, +/-1%	RES SMD 4.7K OHM 1% 1/10W 0603	Yageo	RC0603FR-074K7P
44	3	SB1 SB2 SB3	Open, 0603	RES 0 OHM JUMPER 1/10W 0603 (not mounted)	Rohm Semiconductor	SFR03EZPJ000
45	1	SW1	SPST SW, 6.00mm x 3.50mm	SWITCH TACTILE SPST-NO 0.05A 24V	TE Connectivity ALCOSWITCH Switches	1437566-3
46	1	TP3	TP, 0.100" Dia x 0.180" L (2.54mm x 4.57mm)	TEST POINT PC MINI .040"D RED	Keystone Electronics	5000
47	4	TP4 TP5 TP6 TP7	TEST POINT, 0.128" L x 0.065" W (3.25mm x 1.65mm)	PC TEST POINT NATURAL	Harwin Inc.	S1751-46R
48	1	U1	M24C32-RMN6TP, 8-SOIC (0.154", 3.90mm Width)	32 Kbit serial I2C bus EEPROM	ST	M24C32-RMN6TP
49	1	U2	ST25R3916B-AQWT, VFQFPN32	IC RFID NFC/HF READER	ST	ST25R3916B-AQWT
50	1	Y1	NDK 27,12MHz Crystal, 4-SMD, No Lead, 2x1.6 mm	CRYSTAL 27.1200MHZ 10PF SMD	NDK America, Inc.	NX2016SA-27.12MHZ-EXS00A-CS01188
Misc						
1	4	Nut	PLASTIC HEXAGON NUT M3	M3x0.5 Hex Nut 0.217" (5.50mm) Nylon	Würth Elektronik	709940300
2	4	Spacer	MALE FEMALE THREADED STANDOFF, M	Hex Standoff Threaded M3x0.5 Nylon 0.472" (12.00mm) Natural	Essentra	36M30MF012

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