



								\$29.72												
Part Number	Brief Description	Type	Package	Value	QTY	Purpose	Price (\$) Pric	e (\$) Total Supplier	Link	Notes										
STM32H7R3V8T6	IC MCU 32BIT 64KB FLASH 100LQFP	IC	100LQFP	-	1	MCU	\$7.89	\$7.89 digikey	https://www.c	ligikey.com/en/	oroducts/detai	/stmicroe	ectronics/STN	32H7R3V8T6/	22486039					
LM2576-5.0WU	Switching Voltage Regulators 3A Step-Down SMPS Regulator	IC	-	-	1	12->5V	\$1.79	\$1.79 mouser	https://www.n	nouser.com/Pr	oductDetail/Mi	crochip-Te	chnology/LM2	576-5.0WU?qs	=kh6iOki%	2FeLHII9x	hWDTjJw9	%3D%3D		
NCP1117DT33T5G	IC REG LINEAR 3.3V 1A DPAK (LDO)	IC	-	-	1	5->3.3V	\$0.64	\$0.64 digikey	https://www.c	ligikey.com/en/	oroducts/detai	/onsemi/l	CP1117DT33	T5G/921285						
XT30PW-M	XT30 Elbow Board Connector	Conn	-	-	1	External power connection	\$0.81	\$0.81 TME	https://www.tr	me.com/us/en-	us/details/xt30	pw-m/dc-	ower-connec	ors/amass/						
0685P2000-01	Surface Mount Fuses Surface Mt Chip fuse 1206 size, 2A	Fuse	-	-	1	Fusing main power	\$0.73	\$0.73 mouser	https://www.n	nouser.com/Pr	oductDetail/Be	I-Fuse/06	5P2000-01?d	s=vLWxofP3U	2wVMvAft2	WoWQ%3	<u>D%3D</u>			
ECS-80-18-4XDN	8 MHz Oscillator	Osc	-	-	1	External oscillator for MCU	\$0.71	\$0.71 digikey	https://www.c	ligikey.com/en/	oroducts/detai	/ecs-inc/E	CS-80-18-4X	DN/827606?s=	N4lgTCBc[	DalKIGEDK	(BaAHABh	nQRjSgLA	BoAiAciALo(	C%2BQA
Tactile Switch B3F	Tactile Button switch (6mm), thru hole	But	-	-		NRST circuit 6mm tactile switch	\$2.50	\$0.00 adafruit	https://www.a	dafruit.com/pr	duct/367									
CR0805-FX-6200ELF	RES SMD 620 OHM 1% 1/8W 0805	Res	-	-	1	R_ext for oscillator circuit	\$0.10	\$0.10 digikey	https://www.c	ligikey.com/en/	oroducts/detai	/bourns-i	c/CR0805-FX	-6200ELF/378	<u>5055</u>					
CR0603-FX-1002ELF	RES SMD 10K OHM 1% 1/10W 0603	Res	0603	10k	2	NRST pull up, BOOT0 pull down	\$0.10	\$0.20 digikey	https://www.c	ligikey.com/en/	oroducts/detai	/bourns-i	c/CR0603-FX	-1002ELF/359	3188					
CR0603-FX-1300ELF	RES SMD 130 OHM 1% 1/10W 0603	Res	0603	130	1	Resistor for 5V status LED	\$0.10	\$0.10 digikey	https://www.c	ligikey.com/en/	oroducts/detai	/bourns-i	c/CR0603-FX	-1300ELF/374	0907					
CR0603-FX-3300ELF	RES SMD 330 OHM 1% 1/10W 0603	Res	0603	330	1	Resistor for 3V3 status LED	\$0.10	\$0.10 digikey	https://www.c	ligikey.com/en/	oroducts/detai	/bourns-i	c/CR0603-FX	-3300ELF/378	3948?s=N4	<u>IgTCBcDa</u>	IMICUAMA	A2JBmAtA	AMQBqfXSS(	QFEAZbEAXQF
HSMG-C170	Standard LEDs - SMD Green Diffused 572nm 15mcd	Diode	0805	-	1	5V status	\$0.38	\$0.38 mouser	https://www.n	nouser.com/Pr	oductDetail/Bro	adcom-A	/ago/HSMG-0	:170?qs=YDL0	qNrpDT4ln	8ArMPkM	EA%3D%3	<u>3D</u>		
HSMA-C170	Standard LEDs - SMD Amber Diffused 592nm 90mcd	Diode	0805	-	1	3V3 status	\$0.61	\$0.61 mouser	https://www.n	nouser.com/Pr	oductDetail/Bro	oadcom-A	/ago/HSMA-C	170?qs=YDL0	qNrpDT47	EfDRX4SI	KQ%3D%3	<u>3D</u>		
1N5819HW1-7-F	Diode 40 V 1A Surface Mount SOD-123F	Diode	SOD-123F	-	1	Diode for switching circuit	\$0.10	\$0.10 digikey	https://www.c	ligikey.com/en/	oroducts/detai	/diodes-ir	corporated/1N	15819HW1-7-F	/5768523					
GRM0335C1H101JA01D	CAP CER 100PF 50V C0G/NP0 0201	Сар	0603	10n	4		\$0.10	\$0.40 digikey	https://www.c	ligikey.com/en/	oroducts/detai	/murata-e	ectronics/GR	M0335C1H101	JA01D/226	<u>9165</u>				
AGC0603X7R500-104KNP	Auto Grade Capacitor,0603,X7R,50	Сар	0603	0.1u	16		\$0.10	\$1.60 digikey	https://www.c	ligikey.com/en/	oroducts/detai	/venkel/A	GC0603X7R5	00-104KNP/20	484942					
DNE	Capacitor	Сар	0603	1u	10		\$0.50	\$5.00		need to re	spec, 1u DNE	in 0603 (	oump to 0805							
DNE	Capacitor	Сар	0603	2.2u	3		\$0.50	\$1.50		need to re	-spec, 2.2u DN	IE in 060	(bump to 080	5)						
DNE	Capacitor	Сар	0805	10u	4	Generally for MCU & switching circuit power isolation  circuit power isolation	\$0.50	\$2.00 ?	?	could not	ind, need to re	-spec								
DNE	Capacitor	Сар	0805	22u	4		\$0.50	\$2.00 ?	?	could not	ind, need to re	-spec								
865080543009	CAP ALUM 47UF 20% 35V SMD	Сар	6.6x6.6x8	47u	2		\$0.28	\$0.56 digikey	https://www.c	ligikey.com/en/	oroducts/detai	/w%C3%	3Crth-elektror	ik/8650805430	09/572810	<u>3</u>				
865080343009	CAP ALUM 100UF 20% 16V SMD	Сар	6.6x6.6x8	100u	2		\$0.28	\$0.56 digikey	https://www.c	ligikey.com/en/	oroducts/detai	/w%C3%	3Crth-elektror	ik/8650803430	09/572801	4				
GRM0335C1H330GA01D	CAP CER 33PF 50V C0G/NP0 0201	Сар	0805	32p	2		\$0.10	\$0.20 digikey	https://www.c	ligikey.com/en/	oroducts/detai	/murata-e	ectronics/GR	M0335C1H330	GA01D/43	58723				
SSR1280-331K	5050 330uH inductor	Ind	5050	330u	1	Inductor for switching circuitry	\$1.01	\$1.01 mouser	https://www.n	nouser.com/Pr	ductDetail/Bo	urns/SRR	1280-331K?q	=brMhP%2FM	ljUfd0Kl3W	q6D0xQ%3	3D%3D			
DS04-254-2-01BK-SMT-TR	DIP Switches / SIP Switches DIP Switch, SPST, 2.54 pitch, flat actuator, SMT	Sw	-	-	1	Dip switch for BOOT0	\$0.73	\$0.73 mouser	https://www.n	nouser.com/Pr	ductDetail/CL	II-Devices	DS04-254-2-	1BK-SMT-TR	?qs=wnTfsl	H77Xs4xXF	RFXKF0ss	sg%3D%3[	D	