

MQTT Subsystem - Kirk Volin

Part Name	Designator	Description	Unit Quantity	Unit Prototype Cost	Total Prototype Cost	Unit Production Cost	Total Production Cost	Manufacturer	Manufacturer Part #	Vendor Link	Datasheet Link	Supplier	Supplier Part #	# Ordered	Date Ordered	# Received	Surplus
ESP32-S3-WROOM-1-N4	ESP32	ESP32-S3	1	\$2.95	\$2.95	\$2.95	\$2.95	Espressif Syst	ESP32-S3-WROOM-1	https://www.digikey.co	https://www.espressif.com	Digikey	1965-ESP32-S3-WROOM-1-N4TR-ND				-1
CMP-05427-000088-1	C1	CAP ALUM 220UF 20% 25V SMD	1	\$0.87	\$0.87	\$0.43	\$0.43	Panasonic Elec	EEE-FTEZ21XAP	https://www.digikey.co	https://industrial.panasonic.com	Digikey	10-EEE-FTEZ21XAPTR-ND				-1
CMP-00287-21274267-1	C2	CAP ALUM 150UF 20% 10V SMD	1	\$0.53	\$0.53	\$0.20	\$0.20	Panasonic Elec	EEE-FT1A151AR	https://www.digikey.co	https://industrial.panasonic.com	Digikey	P15082TR-ND				-1
CMP-2007-04373-1	C3, C7	CAP CER 0.1UF 50V X7R 0805	2	\$0.12	\$0.24	\$0.03	\$0.07	KYOCERA AVX	KGM21NR71H104MT	https://www.digikey.co	https://datasheets.kyocera.com	Digikey	478-KGM21NR71H104MTTR				-2
CMP-03020-034676-1	C8	CAP CER 10UF 6.3V X5R 0805	1	\$0.08	\$0.08	\$0.04	\$0.04	KYOCERA AVX	0805D106KAT2A	https://www.digikey.co	https://datasheets.kyocera.com	Digikey	478-KGM21AR50J106KJTR				-1
3372-08058103K251DCTR	C10, C4, C9, C1	Cap_SMD,0805,X7R,10nF,10%,250V	6	\$0.04	\$0.25	\$0.04	\$0.25	Allen	0805B103K251DC	https://www.digikey.co	https://mm.digikey.com	Digikey	3372-0805B103K251DCTR				
3372-08058105K250CCTR	C12	CAP_SMD,0805,X7R,1uF,10%,25V	1	\$0.11	\$0.11	\$0.11	\$0.11	Allen	0805B105K250CC	https://www.digikey.co	https://mm.digikey.com	Digikey	3372-0805B105K250CCTR				
USBLC6-25C6	CR1	TVS DIODE 5.25VWM 17VC SOT23-6	1	\$0.36	\$0.36	\$0.11	\$0.11	STMicroelectron	USBLC6-25C6	https://www.digikey.co	https://www.st.com/cq	Digikey	497-5235-2-ND				-1
PMEG4030ERDKR	D1	DIODE SCHOTTKY 40V 3A SOD123FL	1	\$0.50	\$0.50	\$0.11	\$0.11	EVQ	PMEG4030ER	https://www.digikey.co	https://mm.digikey.com	Digikey	5272-PMEG4030ERTR-ND				-1
CMP-0303-00003-3	D2, D3, D4, D5	DIODE SCHOTTKY 40V 1A SOD123	4	\$0.25	\$1.00	\$0.09	\$0.34	Diodes Incomp	1N5819HW-7-F	https://www.digikey.co	https://www.diodes.com	Digikey	1N5819HW-FDTR				-4
CMP-1426-00008-7	LED1, LED2, LED	Led, Blue, 470 Nm, 3.2 V, 30 Ma, 1	7	\$0.17	\$1.19	\$0.12	\$0.84	Würth Elektronik	150080BS75000	https://www.digikey.co	https://www.we-online.com	Digikey	732-4982-2				-7
CMP-2000-05742-2	F1	FUSE BRD MINT 2A 63VAC 63VDC 12C	1	\$0.91	\$0.91	\$0.41	\$0.41	Littelfuse Inc.	0466002NR	https://www.digikey.co	https://www.littelfuse.com	Digikey	F1457TR-ND				-1
CMP-2000-06407-2	FB1	FERRITE BEAD 50 OHM 1206 4LN	1	\$0.13	\$0.13	\$0.04	\$0.04	Laird-Signal Int	HI1206T500R-10	https://www.digikey.co	https://www.laird.com	Digikey	240-2412-2-ND				-1
CMP-08257-000179-1	FB2	FERRITE BEAD 600 OHM 0603 4LN	1	\$0.10	\$0.10	\$0.03	\$0.03	TDK Corporation	MPZ1608S601ATA00	https://www.digikey.co	https://product.tdk.com	Digikey	445-MPZ1608S601ATA00TR				-1
USB3131-30-0230-A, REV B	J1	USB - micro B USB 2.0 Receptacle	1	\$0.77	\$0.77	\$0.50	\$0.50	GCT	USB3131-30-0230-A	https://www.digikey.co	https://gct.co/files/spec	Digikey	2073-USB3131-30-0230-ATR-ND				-1
702460801	J2, J3	CONN HEADER VERT 8POS 2.54MM	2	\$0.95	\$1.90	\$0.57	\$1.14	Molex	702460801	https://www.digikey.co	https://www.molex.com	Digikey	900-0702460801				-2
CMP-25680-000039-1	J4, J5, J6, J7	CONN HDR 8POS 0.05 GOLD PCB	4	\$1.06	\$4.24	\$0.59	\$2.36	Sullins Connect	LPPB081NFFN-RC	https://www.digikey.co	https://s3.amazonaws.com	Digikey	S9008E-08				-4
CMP-04762-000006-1	J9, J10, J11	CONN SHUNT CLOSED TOP .100 GOL	3	\$0.59	\$1.77	\$0.34	\$1.01	Molex	15291025	https://www.digikey.co	https://www.molex.com	Digikey	WM23943				-3
54-00132	J8	CONN JACK R/A PCB 5.5X2.5MM	1	\$0.86	\$0.86	\$0.51	\$0.51	Tensility Intern	54-00132	https://www.digikey.co	https://tensility.s3.us-east-1.amazonaws.com	Digikey	839-1515				-1
CMP-0227-00736-2	L1	FIXED IND 68UH 1.91A 120MOHM SN	1	\$2.03	\$2.03	\$1.45	\$1.45	Würth Elektronik	744771168	https://www.digikey.co	https://www.we-online.com	Digikey	732-1215-2-				-1
CMP-2001-00337-1	R1, R7	RES SMD 10K OHM 5% 1/8W 0805	1	\$0.10	\$0.10	\$0.01	\$0.01	Panasonic Elec	ERJ-6GEYJ103V	https://www.digikey.co	https://industrial.panasonic.com	Digikey	P10KATR				-1
RC0805FR-071KL	R2, R3, R4, R5	RES 1K OHM 1% 1/8W 0805	4	\$0.10	\$0.40	\$0.01	\$0.03	YAGEO	RC0805FR-071KL	https://www.digikey.co	https://www.yageo.com	Digikey	311-1.00KCRRTR				-4
ERJ-6GEYJ512V	R6, R8, R9	RES SMD 5.1K OHM 5% 1/8W 0805	3	\$0.10	\$0.30	\$0.01	\$0.04	Panasonic Elec	ERJ-6GEYJ512V	https://www.digikey.co	https://industrial.panasonic.com	Digikey	P5.1KATR-ND				
CMP-1459-00001-3	SW1, SW2	Switch Tactile Spst-no 0.05A 12V	2	\$0.52	\$1.04	\$0.41	\$0.83	Würth Elektronik	43411102S826	https://www.digikey.co	https://www.we-online.com	Digikey	732-7039-2-ND				-2
CMP-1672-00009-1	TP1, TP2, TP3, TP	Test Point, Orange, 1-Pin THD, RoHS	10	\$0.39	\$3.90	\$0.14	\$1.43	Keystone Electr	5003	https://www.digikey.co	https://www.keyelco.com	Digikey	36-5003				-10
CMP-0069-00229-3	U1	IC REG BUCK 3.3V 1A TO263	1	\$5.14	\$5.14	\$2.86	\$2.86	Texas Instrument	LM2595S-3.3/NOPB	https://www.digikey.co	https://www.ti.com/ger	Digikey	LM2595S-3.3/NOPB-ND				-1