

# Component List

Bill of Materials For Project [0301-MMFE-8.PrjPcb] (No PCB Document Selected)



Source Data: 0301-MMFE-8.PrjPcb  
Project: 0301-MMFE-8.PrjPcb  
Variant: None

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#	Quantity	Designator	Description	#Column Name	MFGPN	Footprint	DNP	Size	Watt	Cost	Availability	Size mm	Power W	Cost	Received
1	4	B1, B2, B3, B4	Single Terminal Socket		NA	MTG300_600		255	0	0	NA	1020	0	0	0
2	109	C11, C12, C13	CAP CER 4.7uF 0402 6.3V 20% X5R		GRM155R60J475ME87D	CAPC.0402		5	0	0.02	13K-Arrow	54.5	0	2.18	0
3	164	C21, C22, C23	Cap Cer 0.22uF 0201 6.3V 20% X5R		TY_JMK063BJ22AMP-F	CAPC.0201		18	0	0.0340	9k-AV	29.52	0	5.576	0
4	112	C15, C16, C17	CAP CER 100uF 6.3V 20% X5R 1206		CL31A107MJC1HNNE	CAPC.1206		5.12	0	0.15	7K-DK	573.44	0	16.8	0
5	19	C136, C138, C139	CAP Cer 0.01uF 10V 10% X5R C0201		12012D10KA12A	C0201		5	0	0.005	13K-AV	9.5	0	0.1615	0
6	7	C860, C461, C468	CAP Cer 0.001uF 25V 10% X7R C0201		GRM033R7E102KA01D	C0201		5	0	0.003	250K-AV	3.5	0	0.021	0
7	12	C82, C80, C152	CAP Cer 0.1uF 10V 10% X5R C0201		120116D10KA12A	C0201		5	0	0.03	13K-AV	6	0	0.36	0
8	6	C462, C467, C477	CAP CER 10uF 6.3V 20% X5R 0402		CL05A109MGSNUNC	CAPC.0402		1.67	0	0.18	1M-AV	10.02	0	1.08	0
9	10	C144, C469, C470	CAP Cer 189pF 50V 5% C0201		GRM0335C1180JA01D	C0201	[NoValue]	5	0	0.003	250K-AV	5	0	0.003	0
10	2	C62, C63	Cap Cer 0.22uF 0402 50V 10% X5R		UMK105BJ224KV-F	CAPC.0402		5	0	0.023	30k-AV	1	0	0.046	0
11	4	C480	CAP CER 10uF 35V 10% X5R 1206		GMK316BJ106KL	1206		5.12	0	0.078	64K-AV	20.48	0	0.312	0
12	1	C145	CAP Cer 47pF 25V 5% X7R 0201		GRM0335C1E470JA01D	C0201		5	0	0.004	15K-AV	0.5	0	0.004	0
13	2	C146, C147	CAP Cer 470pF 25V 10% X7R 0201		GRM033R7E1471KA01D	C0201		5	0	0.004	15K-AV	1	0	0.008	0
14	2	CBL1, CBL2	miniSAS 41 36 ckt		8F36-AA105-1.00	NA		0	0	11.11	6 week - AV	0	0	22.22	0
15	128	D6, D7, D8, D9	TVS with Ultra Low Capacitance SOT-563-6		NUP4114UPXV6T1G	SOT-563-6		2.89	0	0.6	4K-DK	369.92	0	76.8	0
16	1	D129	Blue LED Vln2_V7 0603 SMD		LTST-C193BKT-5A	LED_LITE-LTST-C191TBKT-2		1.28	0.02	0.47	7K-DK	1.28	0.02	0.47	0
17	10	D135, D136, D137	LED GREEN CLEAR 0603 SMD		LTST-C190GKT	LED_LITE-LTST-C191TBKT-2		1.28	0.02	0.47	302K-DK	12.8	0.2	0.47	0
18	1	D31	Silicon Switching Diode for High-Speed Switching		BA515	SOT-23		7.25	0.025	0.07	9K-DK	7.25	0.025	0.07	0
19	2	D148, D151	DFLS130L-7 in a PowerDI_123 Vln-3		DFLS130L-7	PowerDI_123		5.8	2	0.1	15K-Arrow	11.6	0.4	0.2	0
20	2	D149, D152	LED, Red, LTST-C190CKT, 0603		LTST-C190CKT	LED_LITE-LTST-C191TBKT-2		1.28	0.02	0.35	170K-DK	2.56	0.04	0.7	0
21	2	DDC1, DDC2	Dual, 26VIN, 4A DDCDC		LTM4619EVFPBF	ltm4619		333.75	0.02	28.62	1K-DK	787.5	0.04	57.24	0
22	2	F1, F2	PTC Resettable Fuse 1.5A 24VDC		1812			16.1	0	0.21	22K-AV	32.2	0	0.42	0
23	6	FTG3, FTG4	Fiducial Target		FIDUCIAL_TARGET_S100-200	FIDUCIAL_TOP_S100-200		2.25	0	0	NA	13.5	0	0	0
24	2	J1, J2	Elastomeric Connector		ZEBRA	zebra		1025	0	5	Sarah	2050	0	22	0
25	1	J9	2.0mm TxD 2xshrouded header		MLX 87832-1420	CON_MLX-87332-1420-2		105	0	1.28	4710-Ali Elec	105	0	1.28	0
26	3	J11, J12, J13	Connector HDMI 19 Male + 1 Shield		MOLEX_46765-1001	HDM-0467651001		448.75	0	1.22	1K-Hellind	1346.25	0	3.66	3
27	5	J23	CONN JACK MMX3 STR PCB		0734151471	COAX_2.54MM		12.32	0	3.10	915-DK	61.6	0	15.5	0
28	2	J20, J21	75783-0132		075783-0132	MOLEX_36TH		400	0	5.47	2K-Arrow	800	0	10.94	0
29	1	J24	CONN HEADER RT/A 156 APOS 30AU		3-641210-4	CON_TE-640445-4		160	0	1.9	2K-DK	160	0	1.9	0
30	1	J25	RJ45 M45 w/usb 7468111120R		7468111120R	MAC65-7468111120R		352	0.05	7.03	12K-DK	352	0.05	7.03	0
31	1	J15, J16	Jumper 3-pad 0R0 0402 RES-3pad/PPR R0402-DUAL_JMP		CRCW040200020E0	R0402-DUAL_JMP		0.5	0	0.01	1M-AV	1	0	0.02	0
32	96	L6, L7, L8, L9, L10	FB SM 220 ohm @ 100MHz 2000mA 0.25 0.045 ohm @ DC L0805		BLM21PG221SN1D	L0805	[NoValue]	5.42	0.1	0.4	200K-AV	520.32	9.6	3.84	0
33	1	P1	Header, 16-Pin, Dual row		1010897162	HDR2X8		40.64	0	1.09	20K-AV	40.64	0	1.09	0
34	8	P7, P8, P9	Header, 2-Pin		102972-2	HDR1X2		10	0	0.13	10K-Mou	80	0	1.04	0
35	0	PCB1	0301-MMFE-8 - 3 week layout		0301-MMFE-8	NA		0	0	919.60	3 weeks	0	0	0	0
36	0	PCB2	0301-MMFE-8 - 2 week turn		0301_MMFE-8	NA		0	0	615.86	2 weeks	0	0	0	0
37	0	PCB3	0301-MMFE-8 - assembly - 10 day turn		0301-MMFE-8	NA		0	0	1075.06	2 weeks	0	0	0	0
38	23	PS4, PS5, PS6	Adjustable 1A Single Resistor Low Dropout Regulator		LT3080EEDFTPBF	13080		9	0.02	4.36	5k-DK	207	0.46	100.28	0
39	5	Q21	N-Channel MOSFET		DMG1012T-S0T523	SOT_23_N		4	2.2	0.03	450K-AV	20	1	0.15	0
40	1024	R6, R7, R8, R9	RES 248R 50mW 0.01 R0201		ER-1106F248R3C	C0201		18	0.05	0.1	1M-AV	184.32	51.2	10.24	0
41	7	R1049	RES 499R 62mW 0.01 R0402		CRCW0402499RFXED	RESC.0402		0.5	0	0.1	5M-AV	3.5	0	0.07	0
42	19	R1028	RES 120K 62mW 0.01 R0402		CRCW0402120KFXED	RESC.0402		0.5	0	0.1	1M-AV	9.5	0	0.19	0
43	9	R1048	RES 100K 62mW 0.01 R0402		CRCW0402100KFXED	RESC.0402		0.5	0	0.1	1M-AV	4.5	0	0.09	0
44	25	R1037	RES 4K97 62mW 0.01 R0402		CRCW04024K97FXED	RESC.0402		0.5	0	0.1	1M-AV	12.5	0	0.25	0
45	2	R1033	R1122		CRCW040222R1FXED	RESC.0402		0.5	0	0.1	1M-AV	1	0	0.02	0
46	21	R1043	R1057 R0402, RES 0R0 62mW 0.01 R0402, RES 100R 62mW 0.01 R0402, RES 100R		CRCW040200020E0, CRWCW040200020E0D,	RESC.0402	[NoValue]	0.5	0	0.1	1M-AV	10.5	0	0.21	0
47	3	R1096	RES 300R 62mW 0.01 R0402		CRCW0402300RFXED	RESC.0402		0.5	0	0.1	1M-AV	1.5	0	0.03	0
48	11	R1093	R1094		CRCW04021M00FXED	RESC.0402		0.5	0	0.1	1M-AV	5.5	0	0.11	0
49	1	R1078	RES 180K 62mW 0.01 R0402		CRCW0402180KFXED	RESC.0402		0.5	0	0.1	1M-AV	0.5	0	0.01	0
50	2	R1081	R1082		CRCW0402150RFXED	RESC.0402		0.5	0	0.1	1M-AV	1	0	0.02	0
51	2	R1083	R1084		CRCW040248K7FXED	RESC.0402		0.5	0	0.1	1M-AV	1	0	0.02	0
52	1	R1086	RES 28K 62mW 0.01 R0402		CRCW04028K0FXED	RESC.0402		0.5	0	0.1	1M-AV	0.5	0	0.01	0
53	84	R1099	R1100		CRCW0201100RFXED	C0201		0.5	0.014	0.1	1M-AV	4.2	1.176	0.84	0
54	3	R1141	RES 499R 62mW 0.01 R0402		CRCW0402499RFXED	RESC.0402		0.5	0	0.1	1M-AV	1.5	0	0.03	0
55	7	R1116	R1119		CRCW04021K00FXED	RESC.0402		0.5	0	0.1	1M-AV	3.5	0	0.07	0
56	1	R1137	RES 10R 62mW 0.01 R0805		4-8065			2.5	0	0.1	1M-AV	2.5	0	0.01	0
57	16	R1214	R1219		RES 100K 50mW 0.01 R0201	C0201		0.2	0	0.1	1M-AV	3.2	0	0.16	0
58	1	BP1	4-Resistor Array 3.2x1.6mm		Bourns CAY16-472J4LF	RPAK4LCC-2		5.12	0	0.13	910-AV	5.12	0	0.13	0
59	1	SW1	SW_PB_SPST_4POS_SMT		8-1437565-0	SW_PB_SPST_4POS_SMT		20	0	0.81	0	20	0	0.81	0
60	0	U6, U7, U8	Micro Megas Analog Input ASIC Version 2		VMM2			196	0.640	40	BNL	0	0	0	0
61	1	U9	Pb-Free		XC7A200T-1FBG484I	FBG484		529	8	241	250-AV	529	8	241	0
62	1	U10	NOR Flash Serial-SPI 1.8V 256Mbit 256M128M64M x 1bit/2bit/4bit 8ns 8-Pin DFN EP		n25q256a11ef840	S0W		48	0.036	3.2	250-AV	48	0.036	3.2	0
63	2	U11, U14	4-bit non-inverting translator 1.2 V to 5 V		TXB0104RUT	RUT-N12_OFN127P600-8N		4	0	0.75	1200-AV	8	0	1.5	0
64	1	U12	Ethernet 10/100/1000 GbMII to CU 88E1111-B2-BAB1C000 TFBGA		88E1111-B2-BAB1C000	TFBGA117		162	7	15	10K-AV	162	0.7	15	0
65	1	U13	Osc SM 50MHz 50ppm 15pF 2.5mm x 2mm OSC-4 XTAL_KC2520		SC2520S0.0000C10E00	XTAL_KC2520		5	0.020	3.21	13K-AV	5	0.02	3.21	0
66	2	X1, X4	CRYSTAL 25.000MHz SMT 18PF		ABM6-25.000MHz-B2-T	abm6		20	12.5	1	3000-AV	40	25	2	0
67	1	X2	Osc SM LVDS 200MHz DSC1123 / S1530 LVDS OSC		DSC1123D2-200.0000T	XTAL_S1530		35	0.1	1	200-AV	35	0.01	1	0
68	1	X3	10 CLK GEN ETH LVDS BT-SSOP		IC59440918G-01LF	TOPF694032X00120-8N		19.2	0.2945	1.1	10K-AV	19.2	0.2945	1.1	0
69	1	X5	Osc SM LVDS 200MHz DSC1123 / S1530 LVDS OSC		DSC1123D2-200.0000T	XTAL_S1530		35	0.80	1	7K-DK	35	0.08	1	0
70	1	Z1	Elastomeric Connector Retainer		ZEBRA	Zebra Holster		2050	0	5	Sarah	2050	0	58.23	0

Approved

Notes

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