

Component Inventory and Bills of Materials
100238 ASSEMBLY PARTIAL KIT MPGL2 ATMEL

Engenuics Part Number	Description	Package Notes	Manufacturer	Manufacturer Part #	Unit Price	Designators	Quantity	Total Price
100130	CAP CER 0.1uF 10% X5R 25V 0603 SMT		TDK	C1608X7R1E104K	\$0.02	C1, C3, C9, C12, C15, C18, C19, C20, C21, C23, C32, C34, C39, C40, C52, C53, C54, C56, C57, C58, C59, C60, C61, C62, C63, C64, C66	27	\$0.54
100005	CAP CER 1.0PF 100V NP0 0603	Purple highlight	AVX	06031A1R0CAT2A	\$0.02	C36, C37	2	\$0.04
100233	CAP CER 10pF 50V 1% NP0 0603		Samsung	CL10C100FB8NNNC	\$0.05	C26, C65	2	\$0.10
100006	CAP CER 10uF 10V X5R 0805	Larger package	Taiyo Yuden	LMK212BJ106KG-T	\$0.06	C2, C6, C31, C51, C55, C74, C75	7	\$0.42
100007	CAP CER 12pF 50V 0603 SMD	Blue highlight	TDK	C1608C0G1H120J	\$0.02	C29, C30	2	\$0.04
100009	CAP CER 1uF 10% X5R 16V 0603 SMT	No highlight	Taiyo Yuden Kemet	EMK107BJ105KA-T C0603C105K4PACTU	\$0.04	C4, C5, C41, C42, C43, C44, C45, C69, C70, C71, C72, C73	12	\$0.48
100241	CAP CER 2.2PF 250V NP0 0603		Kemet	CBR06C229CAGAC	\$0.19	C35	1	\$0.19
100010	CAP CER 2200PF 50V X7R 0603	Yellow highlight	Kemet	C0603C222K5RACTU	\$0.02	C33, C38	2	\$0.04
100011	CAP CER 33000PF 25V X7R 0603	Orange highlight	TDK	C1608X7R1E333K	\$0.02	C76, C77, C78, C79, C80, C81	6	\$0.12
100200	CAP CER 33PF 50V 5% NP0 0603		Murata	GRM1885C1H330JA01D	\$0.02	C24, C25, C67, C68	4	\$0.08
100182	CONN USB RCPT MICRO AB R/A SMT		FCI	10104111-0001LF	\$0.61	J1, J2	2	\$1.22
100226	CRYSTAL 12.000000 MHZ SMD 18PF HC49		Suntsu	SCD18B-12.000MHZ TR	\$0.18	X4	1	\$0.18
100034	CRYSTAL 16MHZ 18PF 3.2X2.5 SMD 0/70		Suntsu CTS	SDK-18-C-16.000MHz 403C11E16M00000	\$0.42	X3	1	\$0.42
100040	DIODE SWITCHING 200mA 100V SOD123	Polarized	ON Semi	MMSD4148T3G	\$0.10	D1, D2	2	\$0.20
100179	FUSE PTC RESTTBLE 1.50A 24V CHIP 1812	No polarity	Bel Fuse	OZCC0150BF2C	\$0.20	F1	1	\$0.20
100138	IC ACCELEROMETER SPI/I2C 3AX 14LGA		Analog Devices	ADXL345BCCZ-RL7	\$2.20	U6	1	\$2.20
100223	IC RADIO SOC ANT NRF51422		Nordic Semiconductor	NRF41422-QFAA-T	\$5.01	U3	1	\$5.01
100225	IC USB DUAL ESD PROTECT 6TSOP		NXP Semiconductors	IP4220CZ6,125	\$0.26	U4	1	\$0.26
100240	INDUCTOR HI FREQ 10nH 2%		Panasonic	ELJ-QE10NGFA	\$0.39	L3	1	\$0.39
100239	INDUCTOR HI FREQ 3.3nH +/-0.3nH		Kemet	L0603C3N3SRMST	\$0.14	L1	1	\$0.14
100052	INDUCTOR HI FREQ 4.7nH +/-0.3nH	Blue highlight	Taiyo Yuden	HK16084N7S-T	\$0.04	L2	1	\$0.04
100107	LED 0603 BLUE 470NM WTR CLR SMD	Cathode Mark	Kingbright	APT1608QBC/D	\$0.17	D8	1	\$0.17
100065	LED 0603 GREEN CLEAR SMD	Cathode Mark	Kingbright	APT1608SGC	\$0.09	D3, D7, D18	3	\$0.27
100067	LED 0603 RED CLEAR SMD	Cathode Mark	Kingbright	APT1608SRCPRV	\$0.09	D4, D5, D17	3	\$0.27
100068	LED 0603 YELLOW CLEAR SMD	Cathode mark	Kingbright Osram	APT1608SYCK LY Q971-H1K1-36-0-20-R18	\$0.10	D6	1	\$0.10
100224	MCU ATMEL SAM3U2 LQFP100		Atmel	ATSAM3U2CA-AU	\$4.24	U1, U2	2	\$8.48
100235	PCB BARE MPG LEVEL 2 ATMEL		Enigma	MPGL2-EHDW-01	\$15.44	PCB	1	\$15.44
100075	RES 0.0 OHM 1/10W 1% 0603 SMD	0 or 000	Vishay	CRCW06030000Z0EA	\$0.02	R13, R47, R48, R56, R57, R62, R64	7	\$0.14
100076	RES 1.2K OHM 1/10W 1% 0603 SMD	122	Rohm	MCR03EZPJ122	\$0.02	R22, R23, R24, R25, R31, R35	6	\$0.12

Component Inventory and Bills of Materials
100238 ASSEMBLY PARTIAL KIT MPGL2 ATMEL

Engenuics Part Number	Description	Package Notes	Manufacturer	Manufacturer Part #	Unit Price	Designators	Quantity	Total Price
100078	RES 100K OHM 1/10W 1% 0603 SMD	01d	Yageo Stackpole Rohm	RC0603FR-07100KL RMCFO603FT100K MCR03EZPJ104	\$0.02	R2, R4, R5, R6, R9, R33, R34	7	\$0.14
100079	RES 10K OHM 1/10W 1% 0603 SMD	01c	Vishay	CRCW060310K0FKEA	\$0.02	R17, R44, R45, R46, R52	5	\$0.10
100081	RES 150 OHM 1/10W 1% 0603 SMD	18a	Rohm	MCR03EZPJ151	\$0.02	R32, R49, R50, R51, R54	4	\$0.08
100084	RES 3.6K OHM 1/10W 1% 0603 SMD	362	Rohm	MCR03EZPJ362	\$0.02	R7, R8	2	\$0.04
100228	RES 39 OHM 1/10W 1% 0603 SMD		Panasonic	ERJ-3EKF39R0V	\$0.02	R11, R12, R53, R55	4	\$0.08
100098	RES 390 OHM 1/10W 1% 0603		Yageo SEI	RC0603FR-07390RL RMCFO603FT390R	\$0.02	R1, R10, R18, R19, R20, R21, R58, R59	9	\$0.18
100229	RES 6.80K OHM 1/10W 1% 0603 SMD		Yageo	RC0603FR-076K8L	\$0.02	R14, R65	2	\$0.04
100087	RES 698K OHM 1/10W 1% 0603 SMD	82D	Yageo	RC0603FR-07698KL	\$0.02	R3	1	\$0.02
100186	SWITCH SLIDE DPDT 6VDC 0.3A SMT	No polarity	C&K	JS202011SCQN	\$0.41	S1	1	\$0.41
100214	SWITCH TACTILE SPST-NO 0.05A 32V		C&K	KMR421G LFS	\$0.38	S2	1	\$0.38
100071	TRANS PMOS 20V 4.2A SOT-23-3		Diodes Inc ON Semi DIODES INC	NTR2101PT1G DMP3130L-7	\$0.17	Q3	1	\$0.17
100049	VREG LDO 300MA ADJ-V SOT23-5		Microchip	MCP1824T-ADJE/OT	\$0.47	U5	1	\$0.47
						Parts Total		\$39.41
						Assembly / Manufacturing Cost		\$15.60
						Sub-Total		\$55.01