



M5213EVB
Material List

REF. DES.	QTY	PKG	DESCRIPTION	MFG	PART NUMBER	SOURCE	VENDOR #
+3.3V_EN	0	THRU	HEADER, PINS, 1X2, DO NOT INSTALL				
+3.3V, LED1, LED2, LED3, LED4	5	1206	LED, GREEN SMT	Fairchild	QTLP651C4	Mouser	512-QTLP651C4
CAN_TERM, LED_EN, VDD-EN, VDD_PLL, VX_EN, ZIGBEE_EN	6	THRU	HEADER, PINS, 1X2				
ABORT, RESET	2	1206	LED, RED	Fairchild	QTLP651C2	Mouser	512-QTLP651C2
ABORT_SW, RESET_SW, SW1, SW2	4	SMT	Switch, push, 5mm sq.				
BDM_EN, CLK1, CLK0	1	thru	Header, pins, 2x3				
VRH, VRL, VDDA, VSTDBY	1	thru	Header, pins, 2x4				
BDM_PORT	1	thru	Header, pins, 2x13				
C1, 2	2	0805	Cap., 10pF NOP/COG, 5%	Yageo	0805CG100J9B200	Digikey	311-1099-1-ND
C3	1	0805	Cap., 1000pF, 50V, X7R, 10%	Yageo	08052R102K9B200	Digikey	311-1127-1-ND
C4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 18, 19, 21, 103, 129	15	0603	Cap., .1uf , X7R, 16V, 10%	Murata	GRM188R71C104KA01D	Digikey	490-1532-1-ND
C14, 15, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 41, 42, 43, 44, 45, 46, 47	25	0805	Cap., .1uf , X7R, 50V, 10%	Yageo	08052R104K9B20D	Digikey	311-1140-1-ND
C16	1	SMB	Cap., 10uf 10v tant	AVX	TAJA106K010	Digikey	478-1654-1-ND
C17, 38	2	SMC	Cap., 100uF 35V Elect. 6.3mmD	Nichicon	UWT1V101MCL1GS	Digikey	493-2203-1-ND
C20	1	0603	Cap., 1000pF, 50V, X7R, 10%	Murata	GRM188R71H102KA01D	Digikey	490-1494-1-ND
C39, 40	2	SMC	Cap., 220uF 10V Elect. SMC	Nichicon	UUD1A221MCL1GS	Digikey	493-2250-1-ND
C104, 107, 108	3	0402	Cap., 220pF NPO/COG 5%	Murata	GRM1555C1H221JA01D	Digikey	490-1293-1-ND
C105, 106	2	0402	Cap, 12pf, NPO/COG, 5%,	Murata	GRM1555C1H120JZ01D	Digikey	490-1279-1-ND
C114	1	0805	Cap., 4.7uF Y5V 10V	Murata	GRM21BF51A475ZA01L	Digikey	490-1745-1-ND
C126, 127	2	0402	Cap., 18pF NOP/COG, 5%	Murata	GRM1555C1H180JZ01D	Digikey	490-1281-1-ND



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C128	1	0402	Cap., 1.5pF NOP/COG, +/-0.25p	Murata	GRM1555C1H1R5CZ01D	Digikey	490-1266-1-ND
CAN_EN	1	thru	Header, pins, 2x2				
CLK_SEL	1	thru	Header, pins, 2x6				
COM_SEL1	1	thru	Header, pins, 2x3				
COM_SEL2, JP2	2	thru	Header, pins, 1x3				
D1, 2, 3	3	SOT	Diode, 30V SK	Fairchild	BAT54FS	Digikey	BAT54FSCT-ND
D7	1	SMT	Diode, 2A 40v SK DO214AC	Diodes	B240-13	Digikey	B240DICT-ND
EX_CLK	0	Thru	Connector, SMA verticle, DO NOT INSTALL	Johnson	142-0701-231	Digikey	J608-ND
F1	1	SMT	Fuse, Poly, 1A, 60V	Raychem	SMD050	Digikey	SMD050CT-ND
FB1, 2, 3, 4, 5, 6	6	0805	Ferrite Bead, 330 ohm, 1A	Murata	BLM21PG331SN1D	Mouser	81-BLM21P331SG
FEET	4		Rubber feet, small dia.			Mouser	517-SJ-67A1
GND_TP	2	THRU	HEADER, PINS, 1X1				
JP1, UART0_EN, UART1_EN, UART2_EN	4	thru	Header, pins, 2x4				
L1, 2	2	1210	Inductor, 10uH choke	Panasonic	ELJ-PA100KF	Digikey	PCD1484CT-ND
LV1	1	smt	IC, Volt det., 3.3V SOT23	Dallas Semi	DS1818R-10	Avnet	DS1818R-10
MCU_PORT	0	thru	Header, pins, 2x30, DO NOT INSTALL			Mouser	
ON_OFF	1	thru	Switch, toggle, horizontal	Mountain	10TF230	Mouser	10TF230
PWR	1	thru	Power Jack, 2mm Barrel	CUI	PHJ-002A	Digikey	CP002A-ND
Q1	1	smt	Transistor, PNP SOT23	ON SEMI	MMBT3906LT10S	Digikey	MMBT3906LT10SCT-ND
Q2	1	smt	Transistor, NPN SOT23	ON SEMI	MMBT3904LT10S	Digikey	MMBT3904LT10SCT-ND
R1	1	0805	Res., 1M 5%	Rohm	MCR10EZHJ10M	Digikey	RHM10MACT-ND
R2, 15, 16, 17, 18, 19, 20, 21, 25, 45, 47, 48, 49, 50, 51	15	0805	Res., 4.7K	Rohm	MCR10EZHJ4.7K	Digikey	RHM4.7KACT-ND
R3, 4, 5, 6, 8, 10, 11, 13, 23, 26, 29, 30, 34, 35, 41, 42	16	0805	Res., 10K 5%	Rohm	MCR10EZHJ10K	Digikey	RHM10KACT-ND
R7, 36, 43, 44	4	0805	Res., 1K 5%	Rohm	MCR10EZHJ1.0K	Digikey	RHM1.0KACT-ND
R9	1	0805	Res., 0 ohm	Rohm	MCR10EZHJ0.0	Digikey	RHM0.0ACT-ND

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R12	1	0805	Res., 20K 5%	Rohm	MCR10EZHZ20K	Digikey	RHM20KACT-ND
R14, 22, 28, 31, 32, 33, 53	7	0805	Res., 270 Ohm 5%	Rohm	MCR10EZHZ270	Digikey	RHM207ACT-ND
R24	1	0805	Res., 49.9 Ohm, 1%	Rohm	MCR10EZHF49.9	Digikey	RHM49.9CCT-ND
R27	1	0805	Res., 10 ohm, 5%	Rohm	MCR10EZHZ10	Digikey	RHM10ACT-ND
R38	1	0805	Res., 62 ohm, 5%	Rohm	MCR10EZHZ62	Digikey	RHM62ACT-ND
R46	1	0805	Res., 22 ohm, 5%	Rohm	MCR10EZHZ22	Digikey	RHM22ACT-ND
R52	1	0805	Res., 2.2K ohm, 5%	Rohm	MCR10EZHZ2.2K	Digikey	RHM2.2KACT-ND
R106	0	0402	Res., 220 OHM 5%, DO NOT INSTALL	Rohm			
RCAN1, RCAN2	0	0805	Res., DO NOT INSTALL	Rohm			
Shunt	35		Shunt jumper, .1				
TB1	1	thru	Term Block, 3.5mm, 2p, horz.	OST		Digikey	ED1514-ND
U101	1	QFN	RF Transceiver, 2.4G	Freescale	MC13192QN	Freescale	
U1	1	TQFP	MCU, MCF5213 100TQFP	Freescale	MCF5213	Freescale	
U2	1	SOT23-5	IC, INVERT, 1G, Schmitt	Fairchild	NC7SZ14M5X	Digikey	NC7SZ14M5XCT-ND
U3, 5, 8	1	SOIC	IC, XCVR, RS232, 3.3V	Intercil	ICL3232ECBN	Digikey	ICL3232ECBN-ND
U4	1	SOIC	IC, Logic, Quad Buffer	TI	SN74LVC125AD	Digikey	296-8453-5-ND
U6	1	sop	IC, 10 Bit switch	TI	SN74CBTLV3861DBQ	Digikey	296-9149-1-ND
U7	1	SOIC	IC, XCVR, CAN, 3.3V	TI	SN65HVD230D	Digikey	296-11654-1-ND
UART0, UART1, UART2	3	thru	Connector, DB9F, R/A. .318, W/NUT	Norcomp	182-009-212-181	Digikey	182-809F-ND
VR1	1	T263	IC, Vreg. 500ma, Linear, robust, 3.3V	National semi	LM2937ES-3.3	Digikey	LM2937ES-3.3-ND
Y1	1	SMT	Crystal, 8.0Mhz, SMT	ECS	ECS-80-18-5P	Digikey	XC681CT-ND
X1	1	Thru	Socket, IC, DIP, 14pin, MP	Milmax	110-99-314-41-001000	Digikey	ED3114-ND
X101	1	smt	Crystal, 16.00Mhz, 20ppm, 3.2 x 2.5mm	Abracon	ABM9-16.000MHZ-10-D-1U	Mouser	815-ABM9-16
PCB	1	pcb	PCB, 4 layer, 3.5 x 5.5 inch	Axiom	AXM0367 C		