

BMD-200 Evaluation Board			Rigado	Rev 3.1			Copyright © 2014 Rigado, LLC	
REF	VALUE	DESCRIPTION	MFR	MFPN	VEND	VPN	QTY	Datasheet
B1,A1	MA10-1-SMT	10 SIL VERT SMT HDR	Harwin	M20-8771042	Mouser	M20-8771042	2	http://datasheet.octopart.com/M20-8771042-Harwin-datasheet-5306851.pdf
JCUR		3POS SIL VERTICAL SMT HEADER	Harwin	M20-8770342	Digikey	952-1951-ND	1	http://datasheet.octopart.com/M20-8770342-Harwin-datasheet-5306851.pdf
U2	APDS9005	AMBIENT LIGHT SENSOR 6CHIPLED	Avago	APDS-9005-020	Mouser	APDS-9005-020	1	http://datasheet.octopart.com/APDS-9005-020-Avago-datasheet-5340760.pdf
BAT		Linx CR2032 Battery Holder	Linx	BAT-HLD-001	Mouser	BAT-HLD-001	1	http://datasheet.octopart.com/BAT-HLD-001-Linx-datasheet-12524079.pdf
U1	BMD-200	BLE Module w/ nRF51822 SoC	Rigado	BMD-200	Rigado	BMD-200-A-CT	1	http://rigado.com/downloads/BMD-200-DS-V1.0.pdf
C38,C37,C36,C35,C34,C33,C32,C31,C30,C29,C2	0.1u	CAP CER 0.1UF 6.3V 10% X5R 0402	Samsung	CL05A104KQ5NNNC	Digikey	1276-1442-1-ND	19	http://datasheet.octopart.com/CL05A104KQ5NNNC-Samsung-Electro-Mechanics-datasheet-11541288.pdf
C19	10nF	CAP CER 10000PF 16V 10% X7R 0402	Samsung	CL05B103KO5NNNC	Digikey	1276-1051-6-ND	1	http://datasheet.octopart.com/CL05B103KO5NNNC-Samsung-datasheet-17276686.pdf
C25	10pF	CAP CER 10PF 50V 5% NP0 0402	Samsung	CL05C100JB5NNNC	Digikey	1276-1139-6-ND	1	http://datasheet.octopart.com/CL05C100JB5NNNC-Samsung-Electro-Mechanics-datasheet-11758155.pdf
C21,C20,C2,C1	16p	CAP CER 16PF 50V 5% NP0 0402	Samsung	CL05C160JB5NNNC	Digikey	1276-1646-1-ND	4	http://datasheet.octopart.com/General-Multilayer-Ceramic-Capacitors-Samsung-datasheet-family-111.pdf
C9	1uF	CAP CER 1UF 6.3V 5% X5R 0402	Samsung	CL05A105JQ5NNNC	Digikey	1276-1444-6-ND	1	http://www.samsungsem.com/servlet/FileDownload?type=spec&file=CL05A105JQ5NNNC.pdf
C24,C23,C7,C6,C3	4.7u	CAP CER 4.7UF 6.3V 10% X5R 0603	Murata	GRM188R60J475KE19D	Digikey	490-3297-6-ND	5	http://datasheet.octopart.com/GRM188R60J475KE19D-Murata-datasheet-11746860.pdf
JUSB	USB-MICROB-2	CONN USB MICRO B RECPT SMT R/A	FCI	10118192-0001LF	Digikey	609-4613-6-ND	1	http://datasheet.octopart.com/10118192-0001LF-FCI-datasheet-13423637.pdf
X2	12MHz	CRYSTAL 12MHZ 18PF SMD	TXC	7M-12.000MAAJ-T	Digikey	887-1121-1-ND	1	http://datasheet.octopart.com/7M-12.000MAAJ-T-TXC-datasheet-10340792.pdf
X1	32.768kHz	CRYSTAL 32.768KHZ 12.5PF SMD	AVX	ST3215SB32768H5HPWAA	Digikey	478-5428-6-ND	1	http://datasheet.octopart.com/ST3215SB32768H5HPWAA-AVX-datasheet-9883311.pdf
D8,D7		DIODE SCHOTTKY 20V 0.5A SOD123	ON Semi	MBR0520LT3G	Mouser	MBR0520LT3G	2	http://datasheet.octopart.com/MBR0520LT3G-ON-Semiconductor-datasheet-11779391.pdf
U7	MMA8652FC	IC ACCELEROMETER 3AXIS 10DFN	Freescale	MMA8652FCR1	Digikey	MMA8652FCR1CT-ND	1	http://datasheet.octopart.com/MMA8652FCR1-Freescale-Semiconductor-datasheet-27203100.pdf
U6	CAT25160	IC EEPROM 16KBIT 20MHZ 8SOIC	ON Semi	CAT25160VI-GT3	Mouser	CAT25160VI-GT3	1	http://datasheet.octopart.com/CAT25160VI-GT3-Catalyst-Semiconductor-datasheet-8464106.pdf
U8	ATSAM3C-TQFP	IC MCU 32BIT 128KB FLASH 100LQFP	Atmel	ATSAM3U2CA-AU	Mouser	ATSAM3U2CA-AU	1	http://datasheet.octopart.com/ATSAM3U2CA-AU-Atmel-datasheet-17019152.pdf
U4		IC REG LDO 3.3V 0.3A SOT23-3	Diodes Incorpo	AP7333-33SAG-7	Mouser	AP7333-33SAG-7	1	http://www.mouser.com/ds/2/115/AP7333-69860.pdf
D6	Green	LED 1.6X0.8MM 568NM GRN CLR SMD	Kingbright	APT1608SGC	Digikey	754-1121-6-ND	1	http://datasheet.octopart.com/APT1608SGC-Kingbright-datasheet-8328416.pdf
D5	Red	LED 1.6X0.8MM 625NM RED CLR SMD	Kingbright	APT1608EC	Digikey	754-1117-1-ND	1	http://datasheet.octopart.com/APT1608EC-Kingbright-datasheet-9700807.pdf
D4	RGD_LED	LED RGB SMD DIFF 4-PLCC	Cree	CLVBA-FKA-CA1D181BB7R3R3	Digikey	CLVBA-FKA-CA1D181BB7R3R3DKR-ND	1	CLVBAFKA.pdf
Q1, Q2		MOSFET 2N-CH 20V 0.18A ES6	Toshiba	SSM6N35FE,LM	Digikey	SSM6N35FELMDKR-ND	2	SSM6N35FE
R20	1R	RES 1.00 OHM 1/8W 1% 0805 SMD	Yageo	RC0805FR-071RL	Digikey	311-1.00CRDKR-ND	1	http://datasheet.octopart.com/RC0805FR-071RL-Yageo-datasheet-8330313.pdf
R23,R22,R21	100k	RES 100K OHM 1/16W 5% 0402	Samsung	RC1005J104CS	Digikey	1276-4424-6-ND	3	http://datasheet.octopart.com/RC1005J104CS-Samsung-datasheet-12509865.pdf
R28,R14,R12,R6,R5,R4	1k	RES 1K OHM 1/16W 5% 0402	Samsung	RC1005J102CS	Digikey	1276-4376-1-ND	6	http://datasheet.octopart.com/RC1005J102CS-Samsung-datasheet-12509865.pdf
R18,R13,R3,R2,R1	220R	RES 220 OHM 1/16W 5% 0402	Samsung	RC1005J221CS	Digikey	1276-4360-1-ND	5	http://datasheet.octopart.com/RC1005J221CS-Samsung-datasheet-12509865.pdf
R26	220R	RES 220 OHM 1/16W 5% 0403	Samsung	RC1005J221CS	Digikey	1276-4360-1-ND	1	http://datasheet.octopart.com/RC1005J221CS-Samsung-datasheet-12509865.pdf
R27	220R	RES 220 OHM 1/16W 5% 0404	Samsung	RC1005J221CS	Digikey	1276-4360-1-ND	1	http://datasheet.octopart.com/RC1005J221CS-Samsung-datasheet-12509865.pdf
R29	220R	RES 220 OHM 1/16W 5% 0405	Samsung	RC1005J221CS	Digikey	1276-4360-1-ND	1	http://datasheet.octopart.com/RC1005J221CS-Samsung-datasheet-12509865.pdf
R8,R7	39R	RES 39 OHM 1/16W 5% 0402	Samsung	RC1005J390CS	Digikey	1276-4342-1-ND	2	http://datasheet.octopart.com/RC1005J390CS-Samsung-datasheet-12512363.pdf
R25,R24,R16,R15,R11,R10,R9	4.7k	RES 4.7K OHM 1/16W 5% 0402	Samsung	RC1005J472CS	Digikey	1276-4392-1-ND	7	http://datasheet.octopart.com/RC1005J472CS-Samsung-datasheet-12520002.pdf
R17	6.8k	RES 6.8K OHM 1/16W 1% 0402	Samsung	RC1005F682CS	Digikey	1276-4098-1-ND	1	http://datasheet.octopart.com/RC1005F682CS-Samsung-Electro-Mechanics-datasheet-11542935.pdf
S3,S2,S1		SWITCH TACTILE SPST-NO 0.05A 12V	E-Switch	TL3301AF160QG	Digikey	EG2526CT-ND	3	http://datasheet.octopart.com/TL3301AF160QG-E-Switch-datasheet-500121.pdf
D3,D2,D1	ESD	TVS DIODE 3.3VWM SOD923	On Semi	ESD9B3.3ST5G	Digikey	ESD9B3.3ST5GOSCT-ND	3	http://datasheet.octopart.com/ESD9B3.3ST5G-ON-Semiconductor-datasheet-31820553.pdf
U3	ESD	TVS DIODE SOT5	TI	TPD3E001DRLR	Digikey	296-21885-6-ND	1	tpd3e001.pdf