

Bill of Materials

BEAGLECORE™

Project:	BCM1
Variant:	CM001a
Revision:	2.0
Creation Date:	22.02.2016 19:40:18
Bearbeiter:	Mierau

Art-Nr.	Quantität	Designator	Value	Description	Hersteller	Bestellbezeichnung	Footprint	S/T	Hersteller1	Bestellbezeichnung1	Lieferant
08.0001.	6	C1, C2, C7, C8, C10, C13	10uF_03	Capacitor 0603 10uF 10V			CC1608-0603	SMD			
08.0002.0006	82	C3, C20, C28, C31, C33, C37, C38, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C56, C57, C58, C59, C60, C61, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C92, C93, C94, C97, C98, C99, C100, C101, C102, C103, C105, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C119, C120, C121, C124, C127, C128, C129, C130, C158	0.1uF/6V3_01	Capacitor 0201 6,3V Y5V	any		CC0603-0201	SMD			
08.0001.	17	C4, C9, C11, C12, C14, C15, C39, C40, C41, C55, C62, C77, C95, C96, C118, C122, C126	10uF/6V3_03	Capacitor 0603 6V3; 10%, X5R			CC1608-0603	SMD			
08.0002.	4	C16, C18, C24, C125	2.2uF/6V3_02	Capacitor 0402; 6V3; X5R			CC1005-0402	SMD			
08.0002.____	1	C17	2.2uF/10V_02	Capacitor 0402; 10V; X5R			CC1005-0402	SMD			
08.0002.	1	C19	470pF_02	Capacitor 0402; 50V X7R			CC1005-0402	SMD			
08.0002.	4	C21, C22, C25, C26	18pF_02	Capacitor NPO 50V 0402			CC1005-0402	SMD			
08.0002.0009	2	C32, C123	1nF/16V_02	Capacitor 0402 16V X7R			CC1005-0402	SMD			
08.000_00__	3	C89, C90, C91	1uF/10V_01	Capacitor 0201 6,3V, X5R			CC0603-0201	SMD			
08.0002.	2	C104, C106	1uF/10V_02	Capacitor 0402 10V, X5R			CC1005-0402	SMD			

08.0002.0001	1	C152	0.1uF/16V_02	Capacitor 0402 16V Y5V			CC1005-0402	SMD	Multicomp	MCCA000051	
04.0501.	1	IC3	74LVC1G06DCK	Single Inverter Buffer/Driver With Open-Drain Output	TI	74LVC1G06DCK	SOT353	SMD			Arrow
04.0701.	1	IC5	AM3358BZCZ100	Cortex A8 Processor 15x15	Texas Instruments	AM3358BZCZ100	BGA324_RM0.8_15x15				
04.0701.	1	IC7	M24C64-FCS6TP/K	Serial EEPROM; 2-wire, 8192 x 8 bits	Microchip	M24C64-FCS6TP/K	WLCSP5	SMD			
04.0601.	1	IC12	DDR3L-800-SDRAM-4G-256Mx16	DDR3L 800MHz SDRAM; 4Giga 256M x 16	nanya	NT5CC256M16DP-DI	BGA96_T9_P8_9X14	SMD	intelligentmemory	IM4G16D3FABG-125	Arrow
04.0701.	1	IC13	eMMC-4GB	Flash Card 4G-byte 3.3V MultiMedia Card 153-Pin WFBGA	Hynix	H26M31001HPR	BGA153_P14_P5_11P5X13	SMD	Hynix	H26M41204HPR	Arrow
04.0501.	1	IC16	74LVC1G07DCK	Single Buffer/Driver With Open-Drain Output	TI	74LVC1G07DCK	SOT353	SMD			Arrow
12.0501.	3	L1, L2, L3	2.2uH_20	Inductor 2520; 2,2uH; 1,3A	MURATA	LQM2HPN2R2MG0L	CR9879-2520	SMD			
12.0501.	3	L4, L5, L6	150L	Inductor 120 Ohm Ferrite 0805, 800mA	Laird-Signal Integrity Products	LI0805H151R-10	CR2012-0805	SMD			digikey,
05.0401.0022	1	LD1	LEDgn_b_03	Leuchtdiode bright grün 0603, RV(5mA)@3V3=100OHM	Würth Elektronik	150060VS75000	CD1608-0603	SMD			Würth Elektronik
	4	PM1, PM2, PM3, PM4	PMR	Passer Markierung rund			PASSER_RUND				
09.0002.0003	1	R1	100k_02	Resistor 0402			CR1005-0402	SMD			
09.0002.00__	3	R3, R4, R97	1k5_02	Resistor 0402 1/16W 1%			CR1005-0402	SMD			
09.0002.0002	9	R5, R6, R7, R8, R27, R29, R30, R162, R165	0R_02	Resistor 0402			CR1005-0402	SMD			
09.0002.	1	R10	470k_02	Resistor 0402			CR1005-0402	SMD			
09.0002.	1	R11	280k_02	Resistor 0402			CR1005-0402	SMD			
09.0002.	1	R12	820R_02	Resistor 0402			CR1005-0402	SMD			
09.0002.0004	17	R14, R54, R96, R98, R100, R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R156	10k_02	Resistor 0402			CR1005-0402	SMD			
09.0002.	1	R17	1M_02	Resistor 0402			CR1005-0402	SMD			
09.0002.0014	2	R18, R28	33R_02	Resistor 0402			CR1005-0402	SMD			
09.0002.	1	R22	49R9_02	Resistor 0402			CR1005-0402	SMD			
09.0002.	3	R26, R163, R164	4k75_02	Resistor 0402			CR1005-0402	SMD			
09.0002.	16	R57, R65, R66, R67, R68, R80, R82, R83, R84, R85, R86, R87, R88, R89, R94, R95	100k_01	Resistor 0201			CR0603-0201	SMD			
09.0002.	1	R99	240R_02	Resistor 0402			CR1005-0402	SMD			
04.0901.	1	SR1	TPS65217DRSL	TPS65217x Single-Chip PMIC for Battery-Powered Systems	TI	TPS65217DRSL	RSL48+1	SMD			Arrow
04.0901.	1	SR2	TL5209	IC LDO VOLT REG 500MA 8-SOIC	TI	TL5209DR	SO8	SMD			Arrow
12.0601.0021	1	Y1	32.768kHz	Quarz 32.768kHz; CM3215	Comtec Crystal	CM3215; 32.768kHz	CM3215	SMD			Comtec Crystal
12.0601.0029	1	Y2	24MHz_CM3225	Quarz 24MHz; CM3225	Comtec Crystal	CM3225- 24MHz, 12.95008	QUARZ CM3225	SMD	Geyer	CM3225- 24MHz, 12.95008	Comtec Crystal, Geyer