

Bill of Materials

BEAGLECORE™

Project:	BCS1	
Variant:	BB116a	
Revision:	2.0	
Creation Date:	22.02.2016	17:58:58
Bearbeiter:	Salmen	

Art-Nr.	Quantity	Designator	Value	Description	Manufacturer	Order name	Footprint	S/T	Manufacturer 1	Order name 1	Vendor
08.0002.0001	15	C27, C29, C30, C35, C36, C131, C132, C135, C145, C147, C149, C150, C154, C155, C159	0.1uF/16V_02	Capacitor 0402 16V Y5V			CC1005-0402	SMD	Multicomp	MCCA000051	
08.0001.0091	1	C34	100uF/6.3V_1210	Capacitor 1210; 6.3V	Murata	GRM32ER60J107ME20	CC3225-1210	SMD			
08.0001.	2	C133, C153	10uF/6V3_03	Capacitor 0603 6V3; 10%, X5R			CC1608-0603	SMD			
08.0002.0011	1	C134	1uF/10V_02	Capacitor 0402 10V, X5R			CC1005-0402	SMD			
08.0002.	1	C136	470pF_02	Capacitor 0402; 50V X7R			CC1005-0402	SMD			
08.0001.0055	1	C141	22nF	Capacitor 0805; 50V; 10%			CC2012-0805	SMD			
08.0002.00__	2	C142, C143	30pF/50V_02	Capacitor 0402 50V Y5V			CC1005-0402	SMD			
08.0002.	6	C144, C146, C148, C151, C200, C201	2.2uF/6V3_02	Capacitor 0402; 6V3; X5R			CC1005-0402	SMD			
08.0002.0__	16	C156, C157, C160, C161, C162, C163, C164, C165, C166, C167, C168, C169, C170, C171, C172, C173	47pF/16V_02	Capacitor 0402; 16V; X7R			CC1005-0402	SMD			
05.0101.00__	1	D8	RB751V40	DIODE SCHOTTKY 40V 120MA SOD323	NXP Semiconductors	RB751V40	SOD323	SMD			
05.0701.0009	2	DA6, DA7	TPD4EUSB30_N P	Diode Array TVS, for USB3.0; 4fach, N und P getauscht	TI, NXP	IP4283CZ10-TBA	TPD4EUSB30	SMD		TPD4EUSB30DQAR	
05.0701.00__	2	DA9, DA10	TPD4S012	Diode Array TVS, for USB2.0 TypB; 4fach	TI	TPD4S012	SON6	SMD			
04.0501.00__	1	IC6	74LVC1G74DP	Dual D-Type Positive-Edge-Triggered Flip-Flop with Set and Reset	NXP	74LVC1G74DP	TSSOP8 - 3x3	SMD			Arrow
04.0601.00__	1	IC8	TPS2051B	Current-Limited PowerSwitch	ti	TPS2051BDGNR	DGN-MSOP8+1	SMD			
04.0601.00__	1	IC11	TDA19988	DP to HDMI ESD, Level Shifter	NXP	TDA19988BHN/C1	HVQFN64+EP_N	SMD			
04.0601.00__	1	IC14	LAN8710A	Small Footprint MII/RMII 10/100 Ethernet Transceiver with HP Auto-MDIX and flexPWR® Technology	SMSC-Microchip	LAN8710A-EZK	QFN32+EP	SMD			
04.0501.0041	1	IC15	74LVC2G241DP	dual buffer/line driver; 3-state, 5V-tolerant	NXP	74LVC2G241DP	TSSOP8 - 3x3	SMD			Arrow
12.0501.	4	L3, L4, L7, L8	150L	Inductor 120 Ohm Ferrite 0805, 800mA	Laird-Signal Integrity Products	LI0805H151R-10	CR2012-0805	SMD			digkey,
12.0501.0011	2	L5, L6	WE-CNS-W	Stromkomp. Datenleitungsfilter WE-CNS-W, 90 Ohm	Würth Elektronik	744231091	WE-CNS_W - 0805	SMD	Murata	DLW21SN900SQ2L	

05.0401.0022	5	LD1, LD2, LD3, LD4, LD5	LEDgn_b_03	Leuchtdiode bright grün 0603, RV(5mA)@3V3=100OHM	Würth Elektronik	150060VS75000	CD1608-0603	SMD			Würth Elektronik
	6	PM1, PM2, PM3, PM4, PM5, PM6	PMR	Passer Markierung rund			PASSER_RUND				
12.0601.00__	1	Q3	25.0006MHz_CM3225	Quarz 25.0006MHz; CM3225	Comtec Crystal	CM3225- 25.0006MHz	QUARZ CM3225	SMD	Geyer	CM3225- 25.0006MHz	Comtec Crystal, Geyer
12.0601.	1	QO4	24.576MHz-V96	Quarz Oszillator 24.576MHz; KXO-V96	Geyer	KXO-V96 24.576MHz	QUARZ KXO-V96	SMD			Geyer
09.0002.	5	R12, R71, R72, R73, R74	820R_02	Resistor 0402			CR1005-0402	SMD			
09.0002.0002	15	R19, R20, R46, R47, R48, R49, R50, R51, R96, R137, R142, R149, R159, R160, R161	0R_02	Resistor 0402			CR1005-0402	SMD			
09.0002.0014	2	R21, R167	33R_02	Resistor 0402			CR1005-0402	SMD			
09.0002.0017	3	R23, R24, R25	4k75_02	Resistor 0402			CR1005-0402	SMD			
09.0002.0012	1	R45	22R_02	Resistor 0402			CR1005-0402	SMD			
09.0002.0004	20	R52, R53, R75, R115, R116, R117, R118, R135, R145, R146, R147, R148, R150, R151, R152, R153, R154, R155, R157, R158	10k_02	Resistor 0402			CR1005-0402	SMD			
09.0002.00__	4	R112, R113, R114, R119	1k5_02	Resistor 0402 1/16W 1%			CR1005-0402	SMD			
09.0002.0016	4	R120, R121, R122, R123	49R9_02	Resistor 0402			CR1005-0402	SMD			
09.0002.00__	2	R124, R143	10R_02	Resistor 0402			CR1005-0402	SMD			
09.0001.0013	10	R125, R126, R127, R128, R129, R131, R133, R134, R138, R139	100R_02	Resistor 0402 1%			CR1005-0402	SMD			
09.0001.0158	2	R130, R132	1k2_03_1%	Resistor 0603; 1% 1/16W			CR1608-0603	SMD			
09.0002.0015	1	R141	1M_02	Resistor 0402			CR1005-0402	SMD			
09.0001.01__	1	R144	12k1_02	Resistor 0402; 1%			CR1005-0402	SMD			
09.0001.0286	1	R163	0.02R_05	Resistor Bauform 0805; 5% 1/4W;			CR2012-0805	SMD			
09.0002.0003	1	R165	100k_02	Resistor 0402			CR1005-0402	SMD			
09.0002.0011	1	R166	26k7_02	Resistor 0402			CR1005-0402	SMD			
99.0000.0__	1	RT1	MF-MSMF010	resettable Fuse MF_MSMF 30V, 0,2A bei 23°C	BOURNS	MF-MSMF010	FUSE-MF-MSMF	SMD			
06.0001.00__	2	T1, T2	DDC114YU	2 fach NPN m Widerständen Vceo=40V, Ic=0.1A	Rohm	DDC114YU	SOT363	SMD			
10.0100.00__	3	TA1, TA2, TA3	TA_C&K_KMR231	Taster smd 1pol mm pitch, 4.6x2.8mm case	C&K	KMR231GLFS	TA_KMR2	SMD			
03.0100.0158	1	XB3	USB_R_WE	USB einfach RA Type A	Würth	61400416021	61400416021	THT			Würth
	1	XB4	MINI-USB_B	USB MINI Typ B einfach 5pol.	Molex	0513870530	USB-MINI-B	SMD			

03.0100.0301	1	XB5	J00-0065NL;RJ45+Ü+L	Buchse RJ45 mit Übertrager und LEDS	Pulse, Würth	J00-0065NL	RJ45+Ü+L	THT		7499010211A	
03.0101.00__	1	XB6	Micro-HDMI_Buchse_Type D	micro HDMI Buchse SMT Type D	fci	10118241-001RLF	Micro_HDMI_FCI_SMT_Type D	SMT			
0..0000.0...	2	XB8, XB9	B2X23_THT	Buchsenleiste 46pol. IDC, vertikal 2.54mm pitch	Sullins Connector Solutions	PPPC232LFBN-RC	BU2X23	THT			Digi Key; S7126-ND,
03.0101.00..	1	XB10	MICRO SD_ALPS_R	MICRO SD Memory card connector push/push reverse mount ALPS (SCHA5B0200)	ALPS	SCHA5B0200	Micro-SD-Card-Conn-ALPS-Reverse Mount	SMD			
03.0__0.00__	1	XS1	ST1x2_PJ	DC-Power-Jack, 2mm Stift, 5A, THT,gew.	CUI	PJ-002AH	ST1X2THT-2mm-DC_WA	THT			