

Position	Designator	Description	Value	Quantity
1	C8, C9, C18, C19, C27, C28, C29, C31, C34, C36, C37, C38, C39, C41, C44, C45, C49, C50, C51, C52, C53, C55, C56, C57, C58, C66, C71, C83, C95, C98, C103, C111, C116, C117, C122, C124, C145, C153, C154, C157, C159, C172, C173, C174, C176, C178, C179, C180, C181, C182, C183, C185, C186, C187, C192, C193, C194, C200, C201, C203, C204, C205, C207, C211, C212, C213, C215, C217, C219, C220, C221, C222, C223, C225, C226, C227, C228, C229, C236, C237, C239, C240, C245, C246, C254	SMD capacitor	100nF	85
2	C16, C25, C68, C69, C89, C148	SMD capacitor	100pF	6
3	C4, C76, C79, C81, C85, C86, C92, C93, C108, C109, C110, C136, C137, C138, C140, C141, C149, C162, C163, C164, C165, C166, C167, C168, C169, C175, C184, C191, C195, C197, C198, C199, C202, C206, C209, C210, C216, C230, C233, C235, C241, C243, C244	SMD capacitor	10nF	43
4	C11, C35, C43, C67, C70, C119, C120, C121, C125, C126, C131, C139, C146, C147, C150, C151, C152, C158, C188, C189, C190, C196, C214, C231, C232	SMD capacitor	10uF	25
5	C5	SMD capacitor	150nF	1
6	C106, C107	SMD capacitor	150pF	2
7	C2	SMD capacitor	15pF	1
8	C208, C242	SMD capacitor	1nF	2
9	C20, C82, C114, C177, C218, C224, C234, C238	SMD capacitor	1uF	8
10	C130, C134	SMD capacitor	2,2nF	2
11	C77, C78, C80, C84, C91, C96, C115, C123, C133, C247	SMD capacitor	2,2uF	10
12	C12, C26, C144	SMD capacitor	220pF	3
13	C59, C155, C156, C160, C161	SMD capacitor	22nF	5
14	C33, C46	SMD capacitor	22uF	2
15	C13, C14, C21, C22, C72, C73, C87, C88, C104, C105, C170, C171	SMD capacitor	24pF	12
16	C40, C48	SMD capacitor	3,9pF	2
17	C94, C99	SMD capacitor	30pF	2
18	C10, C100, C132	SMD capacitor	33pF	3
19	C15, C23, C24, C74, C75	SMD capacitor	390pF	5
20	C127	SMD capacitor	4,7nF	1
21	C61, C62, C65, C101, C102, C142	SMD capacitor	4,7uF	6
22	C112	SMD capacitor	470nF	1
23	C63, C64, C143	SMD capacitor	47nF	3
24	C32, C42, C47, C54, C248, C249, C250, C251, C252, C253	SMD capacitor	47pF	10
25	C113	SMD capacitor	47uF	1
26	C17	SMD capacitor	5,6pF	1

27	C128, C129	SMD capacitor	560pF	2
28	C3	SMD capacitor	56pF	1
29	C30	SMD capacitor	8,2pF	1
30	C1, C90, C135	THT capacitor	220uF	3
31	D3, D4, D5, D6	Diode SMD	General purpose Diode SOT23 / 200V / 0,2A	4
32	D1, D2	Diode SMD	General purpose Diode SOT23 / 40V / 0,12A	2
33	D12	Diode SMD	Schottky Diode Smini2 / 1A / 30V	1
34	D7	Diode SMD	Schottky Diode SMA / 3A / 40V	1
35	D9	Diode SMD	ESD Protection Diode SOT23 / 1A / 40V	1
36	D8	Diode SMD	Transil Diode SMB / bidirectional / 600W	1
37	D10, D11	LED SMD	RGB LED	2
38	IC12	IC SMD	CPU TI AM3352BZCE	1
39	IC4	IC SMD	RF Transceiver TI CC113L	1
40	IC21	IC SMD	SMPS Controller TI LM46002	1
41	IC2, IC5	IC SMD	4-Bit Dual-Supply Bus Transceiver SN74AVC4T774	2
42	IC16	IC SMD	Quadruple Bus Buffer Gate with 3-State Outputs SN74LVC125A	1
43	IC23	IC SMD	Single Bus Buffer Gate SN74LVC1G07	1
44	IC7, IC8, IC10, IC11, IC14, IC15	IC SMD	Single-Pole, Double-Throw Analog Switch SN74LVC1G3157	6
45	IC9	IC SMD	MEMS Accelerometer STM- LIS3DH	1
46	IC3	IC SMD	Amplifier TI TAS2505	1
47	IC6	IC SMD	Toshiba TC58NMG2S0HBA16	1
48	IC19	IC SMD	CAN Transceiver NXP TJA1042TK/3 oder MCP2562	1
49	IC22	IC SMD	Power Management IC TI TPS65217C	1
50	IC18	IC SMD	2A Regulator TPS7A7001	1

51	IC17	IC SMD	NFC Transceiver IC TI TRF7970A	1
52	IC13	IC SMD	DDR3 SDRAM 2Gb (256Mx8) Winbond W632GG6LB15I oder NANYA NT5CC128W16IP-DII oder SAMSUNG K4B2G1646F	1
53	IC24	IC SMD	Microcontroller MSOP (MS8) / PIC12F1571-I/MS	1
54	IC25	IC SMD	Ultra Low-Dropout Regulator, SOT-23, 100mA / LP2981	1
55	IC1	IC SMD	M2M SIM card	1
56	L18, L19, L20	Inductor SMD	2,2uH	3
57	L15	Inductor SMD	51uH	1
58	L7	Common mode choke SMD	DLW5AT	1
59	L12, L17	Inductor SMD	4u7	2
60	L5	Inductor SMD	22nH	1
61	L3, L4, L8	Inductor SMD	27nH	3
62	L1, L2	Inductor SMD	82nH	2
63	L13	Inductor SMD	680nH	1
64	L21, L22	Ferrite SMD	150 Ohm @ 100MHz	2
65	L6, L9, L10, L11, L14	Ferrite SMD	600 Ohm @ 100MHz	5
66	L16	Ferrite SMD	330 Ohm @ 100MHz	1
67	MOD1	Module SMD	Panasonic PAN1326B	1
68	MOD2	Module SMD	Ublox UBX-SARA-G3	1
69	MOD3	Module SMD	Quectel L86	1
70	Q1	Crystal SMD	26MHz	1
71	Q2	Crystal SMD	13.56MHz	1
72	Q3	Crystal SMD	32.768kHz	1
73	Q4	Crystal SMD	24MHz	1
74	R1, R32, R47, R64, R65, R67, R74, R75, R78, R79, R80	Resistor SMD	0R	11
75	R13, R20, R43, R50, R52, R68, R71, R72, R81, R88, R102, R106, R108, R109, R111, R112, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123, R126, R138	Resistor SMD	100k	28
76	R6, R16, R17, R18, R24, R25, R26, R27, R33, R34, R37, R38, R39, R40, R86, R87	Resistor SMD	100R	16
77	R14, R35, R42, R142, R143, R145, R150, R151, R153	Resistor SMD	10k	9
78	R21	Resistor SMD	18k	1
79	R141	Resistor SMD	1M	1

80	R55	Resistor SMD	200k	1
81	R51, R53, R70	Resistor SMD	22k	3
82	R15, R147	Resistor SMD	22R	2
83	R93, R94, R95, R96, R146	Resistor SMD	240R	5
84	R89	Resistor SMD	24k	1
85	R105	Resistor SMD	27k	1
86	R2, R3, R4, R5, R149	Resistor SMD	2,2k	5
87	R56	Resistor SMD	30k	1
88	R28, R29, R97, R98	Resistor SMD	330R	4
89	R91	Resistor SMD	33k	1
90	R83	Resistor SMD	360k	1
91	R36, R66, R73	Resistor SMD	36k	3
92	R11, R99, R101, R154, R155, R156	Resistor SMD	3,9k	6
93	R7, R12, R19, R41, R57, R58, R59, R60, R61, R62, R63, R104	Resistor SMD	47k	12
94	R144	Resistor SMD	49,9k	1
95	R8, R9, R10, R30, R31, R48, R49, R54, R84, R85, R103, R107, R148	Resistor SMD	4,7k	13
96	R22, R92	Resistor SMD	56k	2
97	R76, R77	Resistor SMD	5,6k	2
98	R44, R152	Resistor SMD	8,2R	2
99	R90	Resistor SMD	91k	1
100	R100	Resistor SMD	75k	1
101	R140	Resistor SMD	8,2k	1
102	RT1	Resistor SMD	NTC 10k	1
103	S1, S2, S3	Button SMD	Alps SKRPADE010	3
104	T1, T2, T3, T4, T5, T6, T7, T9, T11, T12	Transistor SMD	BCR116	10
105	T8, T10	Transistor SMD	BC847	2
106	K1, K2, K3, K4	Relais THT	SIL-71L	4
107	SIG1	Mikrophone	Kingstate KEEG1542PBL-A oder Veco PVM-4015B-2C423GT	1
108	X1, X4	connector SMD	U.FL-R-SMT-1	2
109	X5	connector SMD	JWT A1257 oder	1
		connector SMD	JST SM02B-GHS-TB	
110	X9	SD card SMD	YAMAICHI PJS008-2100	1
111	X12	connector THT	Amphenol 10114829-10108LF	1
112	X10	connector THT	Molex 53047-0310	1

113	X11	connector THT	TE 1445054-5	1
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