

Multi 3Phase Main Board PartList

Main Board

Revision: ES04

Item	Quantity	Reference	Part	비고
CAPACITOR				
1	4	C22,C23,C24,C25	10pF/50V/1608	
2	1	C15	15pF/50V/1608	
3	4	C11,C12,C13,C14	18pF/50V/1608	20pF으로 대체
4	5	C21,C26,C27,C28,C29	0.01uF/50V/1608	
5	22	C1,C2,C3,C4,C5 C6,C7,C8,C9,C10 C16,C17,C18,C19,C20 C31,C32,C33,C34,C35 C36,C37	0.1uF/50V/1608	
6	1	C30	1uF/50V/1608	
7	1	C38	XCAP(NC)	
T , E /CAPACITOR				
8	2	TC1,TC2	10uF/16V/A	
9	6	TC3,TC4,TC5,TC6,TC7 TC8	10uF/10V/P	
10	2	EC1,EC2	470uF/16V/EC(NC)	
DIODE				
11	5	D1,D6,D8,D10,D11	SS14/SMA	4선식 공용
12	1	D2	SB360/DO-201AD	
13	1	D3	BAT54	
14	1	D4	SMAZ24-13-F	
15	1	D5	1N4148/LL34	
16	2	D7,D9	RLZ5.6B(5.6V/0.5W)	
17	1	D12	BLUE(1608)	
18	1	D13	RED(1608)	
INDUCTOR				
19	9	L5,L6,L7,L8,L10 L11,L12,L13,L14	HB-1M1608-102JT	
20	1	L9	10uH /TCMC0315-100C	
RESISTOR				
21	22	R1,R2,R3,R4,R5,R7 R8,R9,R10,R11,R14 R15,R26,R27,R28,R29 R43,R44,R110,R111,R112 R113	10K/J/1608	
22	1	R6	12.4K/F/1608	
23	4	R12,R13,R16,R40	NC	
24	4	R17,R18,R19,R20	49.9/F/1608	
25	6	R21,R22,R32,R34,R39 R42	0/J/1608	
26	4	R23,R24,R114,R115	330/J/1608	
27	1	R25	15.8/F/1608	
28	3	R30,R41,R105	120/F/1608	
29	1	R31	470/F/1608	
30	2	R33,R35	2/J/1608	

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Item	Quantity	Reference	Part	비고
31	67	R36,R37,R38,R45,R46 R47,R48,R49,R50,R51 R52,R53,R54,R55,R56 R57,R58,R59,R60,R61 R62,R63,R64,R65,R66 R67,R68,R69,R70,R71 R72,R73,R74,R75,R76 R77,R78,R79,R80,R81 R82,R83,R84,R85,R86 R87,R88,R89,R90,R91 R92,R93,R94,R95,R96 R97,R98,R99,R100,R101 R102,R103,R104,R105,R107	4.7K/J/1608	
CONNECTOR&SWITCH				
32	1	JT1	5267-06A	
33	1	J1	BR-1000D	
34	1	J2	DC-005	
35	1	J3	HEADER/1.25/5X2	
36	1	J4	HEADER/1.25/4X2	
37	1	J5	J1B121ZDD	
38	1	J6	05002HR-60J02	
39	2	J7(2포인트 확인)	SMBTB08-2.25H-30-P	
40	2	J8,JD1	HEADER/2.54/3	
41	1	J9	BR-500SL(2P)	
42	16	J10,J11,J12,J13,J14 J15,J16,J17,J18,J19 J20,J21,J22,J23,J24 J25	SOCKET/2/2X20	
43	1	SW1	TACT 1102A	
POWER				
44	3	PM1,PM2,PM3	PA0405S	
45	1	F1	250V/2A 5.0mm SOCKET포함	
46	1	RV1	CNR14D471K	
IC				
47	1	U1	LM1084IS-3.3/NOPB	
48	1	U2	LM3S9B92-C5	
49	1	U3	TPS73101 <NC>	
50	1	U4	FM24V01	4선식 공용
51	1	U5	MMQA5V6T1G	
52	1	U6	FAN5333B	
53	1	U7	SP3483EN	4선식 공용
54	1	U8	SN65HVD230	
55	1	U9	STLM75M2E	
CRYSTAL				
56	1	Y1	25MHz/SMD(3225)	
57	1	Y2	10MHz/SMD(5032)	
58	1	Y3	32.768kHz/OSC	

Multi 3Phase AD Board PartList

AD Board

Revision: ES04

Item	Quantity	Reference	Part	비고
CAPACITOR				
1	16	C1,C2,C3,C4,C5,□6,C7,C8,C9,C10,□11,C12,C13,C14,C15,□16	0.018uF/50V/1608	
2	1	C17	1uF/50V/1608	
3	3	C18,C19,C20	0.22uF/50V/1608	
4	4	C21,C22,C37,C38	20pF/50V/1608	
5	15	C23,C24,C25,C26,C27,□28,C29,C30,C31,C32,□33,C34,C39,C40,C41	0.1uF/50V/1608	메인공용
6	2	C35,C36	10pF/50V/1608	메인공용
TANTAL CAPACITOR				
7	3	TC1,TC2,TC4	4.7uF/10V/P	
8	4	TC3,TC5,TC6,TC7,TC8,TC9	10uF/10V/P	메인공용
DIODE				
9	3	D1,D2,D3	LED_SMD(NC)	
10	1	D4,D5,D6	HSMC-C120(RED)	
INDUCTOR				
11	17	L1,L2,L3,L4,L5, L6,L7,L8,L9,L10, L11,L12,L13,L14,L15, L16,L17	HB-1M2012-102JT	
RESISTOR				
12	1	R54	0/J/1608	메인공용
13	6	R32,R33,R34,R51,R52,R53	330/J/1608	메인공용
14	18	R35,R36,R37,R38,R39, R40,R41,R42,R43,R44, R45,R46,R47,R48,R49, R50,R55,R56	10K/J/1608	메인공용
15	6	R3,R10,R14,R21,R25,R30	0.3/F/2012/Burden	
16	6	R4,R9,R15,R20,R26,R29	0.75/F/2012/Burden	
17	6	R5,R7,R16,R19,R27,R28	2.7/F/2012/Burden	
18	10	R1,R6,R11,R12,R13, R18,R22,R23,R24,R31	1K/F/2012	
19	3	R2,R8,R17	1.5M/F/2012	
CONNECTOR&SWITCH				
20	3	SW1,SW2,SW3	KHT62	
21	1	J4	HEADER/2.54/3(NC)	
22	3	J1,J2,J3	SMW-250-2P	
23	1	J5	HEADER2X20 , 2mm	
IC				
24	1	U1	ADE7878	4선식공용
25	1	U2	FM24V01	4선식공용
26	1	U3	STM32F103CBT6	
27	1	U4	SN65HVD230	메인공용
CRYSTAL				
28	1	Y1	16.384MHz/SMD(3225)	4선식공용
29	1	Y2	32.768KHz/SMD(3215)	4선식공용
30	1	Y3	16MHz/SMD(3225)	4선식공용

TI ZIGBEE MODULE_BD PARTLIST

Item	Quantity	Reference	Part
CAPACITOR			
1	2	C15,C16	NC
2	1	C1	NC
3	1	C9	1.2pF
4	5	C2,C4,C13,C14,C22	10pF/50V(1005)
5	1	C17	15pF/50V(1005)
6	2	C19,C21	27pF/50V(1005)
7	1	C12	220pF/50V(1005)
8	3	C3,C10,C27	1nF/50V(1005)
9	6	C5,C6,C11,C18,C20,C23	100nF/50V(1005)
10	4	C7,C8,C25,C26	1uF/50V(1005)
TANTAL			
11	1	C24	10uF/10V(P-TYPE)
RESISTOR			
12	1	R13	0/J(1005)
13	3	R4,R5,R6	1K/F(1005)
14	6	R2,R7,R8,R9,R10,R12	4.3K/J(1005)
15	1	R11	10K/J(1005)
16	1	R3	56K/J(1005)
INDUCTOR			
17	3	L4,L5,L7	1nH/(1005)
18	1	L1	1.5nH(1005)
19	3	L2,L6,L8	HB-1M1005-102J
CONNECTOR & SWITCH			
20	1	RW1	KHT42
21	1	ANT1	CMJ-S00-001
22	2	CN1.CN2	SMBTB08-2.75H-30-S
23	1	J2	HEADER 2X5 1.27mm RA
IC			
24	1	U1	CC2591
25	1	U2	CC2530
CRISTAL			
26	1	X1	32Mhz 3225