

Tracker3 PCBA Bill of Materials

Board: T3 Analog
Revision: 9.1
Project: T3_Analog.PrjPcb

Quantity	Description	Designator	Manufacturer	Manufacturer Part Number	Category
1	2.8V Regulator	U5	Linear Technology	LT1761ES5-2.8#TRMPBF	Integrated Circuits (ICs)
1	CAP CER 0.022UF 0402	C28	Murata Electronics North America	GRM155R71H223KA12D	Capacitors
1	CAP CER 0.056UF 25V 10% X7R 0603	C18	Panasonic - ECG	ECJ-1VB1E563K	Capacitors
1	CAP CER 150PF 50V C0G 0402	C84	Murata Electronics North America	GRM1555C1H151JA01D	Capacitors
1	CAP CER 18,000PF 50V 5% C0G 0805	C16	Murata Electronics North America	GRM21B5C1H183JA01L	Capacitors
1	CAP CER 22PF 50V 5% COG 0402	RC1	Panasonic - ECG	ECJ-0EC1H220J	Capacitors
1	CAP CER 56PF 50V 5% COG 0603	C38	Kemet	C0603C560J5GACTU	Capacitors
1	CAP CER 750PF 50V 5% COG 0603	C76	Murata Electronics North America	GRM1885C1H751JA01D	Capacitors
1	CAP CER 91PF 50V 5% C0G 0603	C37	Rohm Semiconductor	MCH185A910JK	Undefined Category
1	CBZ1206-202-30 or YCB1206	L3	Associated Components	CBZ1206-202-30	Choke
1	Ceramic Filter (457kHz)	Y4	Zhejiang Jiakang Electronics	LTC457HU	Filter
1	CONN, DF12 MEZZANINE RECEP	J2	Hirose Electric Co Ltd	DF12(3.0)-40DS-0.5V(86)	Connectors, Interconnects
1	CRYSTAL 4.036MHZ 20PF SMD	Y2	ECS Inc	CUSTOM PART - BCA SUPPLIED	Crystals and Oscillators
1	DIODE SWITCH SS DUAL 70V	DN2	ON Semiconductor	BAV99WT1G	Discrete Semiconductor Products
1	DIODE VARACTOR 1SV323	D10	Toshiba	1SV323(TH3,F,T)	Discrete Semiconductor Products
1	IC DGTL POT 100K 128TAPS SC70-6	U7	Microchip Technology	MCP4018T-104E/LT	Integrated Circuits (ICs)
1	IC DGTL POT 100K 256TAPS 14TSSOP	U6	Microchip Technology	MCP4651-104E/ST	Integrated Circuits (ICs)
1	IC EEPROM 8KBIT 400KHZ SOT23-5	U1	Microchip Technology	24AA08T-I/OT	Integrated Circuits (ICs)
1	IC IF MIXER RSSI	U15	NXP Semiconductors	SA606DK/01,118	RF/IF and RFID
1	IC OPAMP	U16	Microchip Technology	MCP6231UT-E/LT	Integrated Circuits (ICs)
1	IC REG LDO 250MA 4.0V SOT23-3	U12	Microchip Technology	MCP1702T-4002E/CB	Integrated Circuits (ICs)
1	IND, 100UH, SHIELDED	L7	Panasonic - ECG	ELJ-SA101KF	Inductors, Coils, Chokes
1	LED, Right Angle Kingbright AA2810ASES/J3	D3	Kingbright Corp	AA2810ASES/J3	Optoelectronics
1	MOSFET N-CH 20V 1.7A SOT23-3	Q10	Diodes/Zetex	ZXM61N02FTA	Discrete Semiconductor Products
1	NC7SZ32P5X	U14	Fairchild Semiconductor	NC7SZ32P5X	Integrated Circuits (ICs)
1	RES 1.00M 1/16W 1% 0402	R156	Rohm Semiconductor	MCR01MZPF1004	Resistors
1	RES 11K 0402 1%	R166	Yageo	RC0402FR-0711KL	Resistors
1	RES 130K 0402 1%	R27	Panasonic - ECG	ERJ-2RKF1303X	Resistors
1	RES 20 OHM 1/10W 5% 0402	R80	Panasonic - ECG	ERJ-2GEJ200X	Resistors
1	RES 200 OHM 0402 1%	R73	Panasonic - ECG	ERJ-2RKF2000X	Resistors
1	RES 300 OHM 0402 1%	R22	Yageo	RC0402FR-07300RL	Resistors
1	RES 330K 1/16W 1% 0402	R52	Panasonic - ECG	ERJ-2RKF3303X	Resistors
1	RES 47 OHM 0402 1%	R8	Panasonic - ECG	ERJ-2RKF47R0X	Resistors
1	RES 7.5 OHM 1/10W 5% 0402	R26	Panasonic - ECG	ERJ-2GEJ7R5X	Resistors
1	SCHOTTKY RECT 30V 1.5A SOD323F	D1	NXP Semiconductors	PMEG3015EJ,115	Discrete Semiconductor Products
1	SW, PD, SPST, NO	S3	APEM Components, LLC	MJTP1138ATR	Switches
14	RES 100 OHM 1/16W 1% 0402	R15, R20, R58, R59, R60, R61, R78, R91, R158, R163, R165, R167, R200, R201	Rohm Semiconductor	MCR01MZPF1000	Resistors

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Quantity	Description	Designator	Manufacturer	Manufacturer Part Number	Category
14	Test Point, Keystone 5015	2.8V, GND, GND2, GND3, GND4, RF1, RF2, RSSI, TPX, TPY, Vinp, X_DISABLE, Y_DISABLE, Z_DISABLE	Keystone Electronics	5015	Test and Measurement
16	RES 0.0 OHM 1/10W Jumper 0402	R1, R5, R6, R7, R16, R17, R18, R32, R38, R63, R81, R82, R88, R89, R92, R93	Rohm Semiconductor	MCR01MZPJ000	Resistors
2	CAP CER 1200PF 0402 50V COG/NP0	C62, C69	Kemet	C0402C122J5GACTU	Capacitors
2	CAP CER 200PF 50V C0G 0402	C8, C47	Murata Electronics North America	GRM1555C1H201JA01D	Capacitors
2	CAP CER 2200PF 50V 5% C0G 0603	C61, C68	Murata Electronics North America	GRM1885C1H222JA01D	Capacitors
2	CAP CER 3000PF 50V 5% COG 0603	C15, C95	Murata Electronics North America	GRM1885C1H302JA01D	Capacitors
2	CAP CER 68PF 50V 5% COG 0603	C41, C79	Kemet	C0603C680J5GACTU	Capacitors
2	Diode VAR Cap Dual Cathode 16V 435pF 8-Pin FM	D7, D8	Toshiba	HN1V02H	Varactor
2	MOSFET P-CH 20V 1A SSOT3	Q6, Q9	Fairchild Semiconductor	NDS332P	Discrete Semiconductor Products
2	RES 10.0 OHM 1/16W 1% 0402	R31, R77	Rohm Semiconductor	MCR01MZPF10R0	Resistors
2	RES 10.0K 1/16W 1% 0402	R11, R65	Rohm Semiconductor	MCR01MZPF1002	Resistors
2	RES 100K 1/16W 1% 0402	R9, R64	Rohm Semiconductor	MCR01MZPF1003	Resistors
2	RES 2.40K 0402 1%	R30, R34	Yageo	RC0402FR-072K4L	Resistors
2	RES 43K 0402 1%	R35, R87	Yageo	RC0402FR-0743KL	Resistors
28	CAP CER 0.10UF 10V 10% X7R 0402	C2, C3, C14, C19, C20, C21, C27, C29, C30, C34, C36, C39, C40, C43, C44, C45, C46, C49, C50, C58, C60, C63, C66, C67, C70, C81, C85, C178	Kemet	C0402C104K8RACTU	Capacitors
3	CAP CER 0.01uF 0402	C9, C32, C72	Murata Electronics North America	GRM155R71H103KA88D	Capacitors
3	CAP CER 1.0UF 10V X5R 0402	C5, C26, C65	Taiyo Yuden	LMK105BJ105KV-F	Capacitors
3	CAP CER 1000PF 25V 10% X7R 0402	C6, C59, C92	Kemet	C0402C102K3RACTU	Capacitors
3	CAP CER 240PF 50V 1% COG/NP0 0603	C33, C42, C80	Murata Electronics	GRM1885C1H241FA01D	Multilayer Ceramic Capacitors MLCC - SMD/SMT
3	INDUCTOR 8.2UH 0603	L1, L4, L9	Associated Components	CUSTOM PART - BCA SUPPLIED MIC0603-8R2J-R	Inductor
3	RES 1.00K 1/16W 1% 0402	R2, R37, R94	Rohm Semiconductor	MCR01MZPF1001	Resistors
3	RES 1.62K 0402 1%	R21, R69, R72	Panasonic - ECG	ERJ-2RKF1621X	Resistors
3	RES 15K 0402 1%	R36, R168, R169	Yageo	RC0402FR-0715KL	Resistors
3	RES 3.30K 0402 1%	R3, R46, R164	Yageo	RC0402FR-073K3L	Resistors
3	RES 30.1K 1/16W 1% 0402	R23, R68, R75	Vishay/Dale	CRCW040230K1FKED	Resistors
4	CRYSTAL 3.579545MHZ 17PF SMD	Y3, Y5, Y6, Y7	ECS Inc	CUSTOM PART - BCA SUPPLIED	Crystals and Oscillators
4	MOSFET, CH DISABLE	Q1, Q7, Q8, Q12	Rohm Semiconductor	RJU002N06T106	MOSFET
4	RES 2.00K 1/10W 1% 0402	R28, R33, R79, R90	Panasonic - ECG	ERJ-2RKF2001X	Resistors
4	RES 3.90K 1/16W 1% 0402	R4, R56, R86, R160	Rohm Semiconductor	MCR01MZPF3901	Resistors
4	RES 33.2K 1/16W 1% 0402	R24, R25, R67, R74	Vishay/Dale	CRCW040233K2FKED	Resistors
4	TRANS NPN 45V 100MA SOT523	Q3, Q4, Q5, Q11	Diodes Inc	BC847AT-7-F	Discrete Semiconductor Products
5	CAP CER 0.01uF 25V 5% C0G 0603	C31, C54, C55, C77, C82	TDK Corporation	C1608C0G1E103J	Capacitors
5	CAP CER 1800PF C0G 0603	C17, C22, C24, C96, C100	Murata Electronics North America	GRM1885C1H182JA01D	Capacitors
5	RES 150k 0402	R29, R62, R66, R161, R162	Yageo	RC0402FR-07150KL	Resistors
8	CAP CER 10UF 6.3V 20% X5R 0603	C1, C12, C23, C35, C52, C53, C73, C78	Murata Electronics North America	GRM188R60J106ME47D	Capacitors
1	Antenna, X, T3	X ANTENNA	Magtop (QVS)	A-4003-T3 (Revision F)	Antenna
1	Antenna, Y, T3	Y ANTENNA	Magtop (QVS)	A-4003-T3 (Revision F)	Antenna
1	Antenna, Z	Z ANTENNA	Magtop (QVS)		Antenna, Z

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 Revision: 9.1
 Project: T3_Digital.PrjPCB

Quantity	Description	Designator	Manufacturer	Manufacturer Part Number	Category
10	Test Point	2.5V, 3.0V, GND1, GND2, GND3, RSSI, SCL, SDA, VCCF, Vinp	Keystone	5015	Test and Measurement
12	CAP CER 10UF 6.3V 20% X5R 0603	C2, C5, C10, C14, C15, C16, C18, C34, C39, C43, C48, C50	Murata Electronics North America	GRM188R60J106ME47D	Capacitors
10	CAP CER 1.0UF 16V X5R 0402	C4, C23, C29, C30, C31, C35, C45, C49, C51, C202	TDK Corporation	C1005X5R1C105K	Capacitors
6	CAP CER .01uF 50V 0402	C6, C11, C13, C25, C37, C52	Murata Electronics North America	GRM155R71H103KA88D	Capacitors
17	CAP CER 0.10UF 10V 10% X7R 0402	C7, C8, C9, C12, C17, C19, C20, C21, C22, C24, C26, C33, C36, C38, C42, C46, C47	Kemet	C0402C104K8RACTU	Capacitors
2	CAP CER 22PF 50V 5% COG 0402	C28, C32	Panasonic - ECG	ECJ-0EC1H220J	Capacitors
1	CAP CER 0.027UF 10V 10% X7R 0402	C40	Murata Electronics North America	GRM155R71A273KA01D	Capacitors
1	CAP CER 2200PF 25V 10% X7R 0402	C41	Murata Electronics North America	GRM155R71E222KA01D	Capacitors
1	CAP CER 100PF 0402	C44	Murata Electronics North America	GRM155C1H101JZ01D	Capacitors
1	CAP TANT 100UF 6.3V 20%	C53	Nichicon	F930J107MBA	Capacitors
1	CAP CER 0.068UF 16V 10% X5R 0402	C200	Panasonic - ECG	ECJ-0EB1C683K	Capacitors
1	CAP CER 820PF 50V 10% X7R 0402	C201	Murata Electronics North America	GRM155R71H821KA01D	Capacitors
1	DISPLAY	D1	Interled	BW136ZUR-A2	
1	VARISTOR, 4VRMS, 0805	D2	EPCOS Inc	CN0805M4G	Circuit Protection
1	FERRITE 1.5A 30 OHM 0603 SMD	FB1	Laird-Signal Integrity Products	MI0603K300R-10	Choke
1	CONN RECEPT 2MM SMD 6POS	J1	Anyconn	F13812006SNSCBNA00	Connectors, Interconnects
1	CONN, DF12 MEZZANINE	J2	Hirose Electric Co Ltd	DF12(3.0)-40DP-0.5V(86)	Connectors, Interconnects
1	CONN HEADER 2POS 2MM R/A T/H	J3	3M	951102-7622-AR	Connectors, Interconnects
1	CONN MINI USB 5PIN VERT T/H	J4	BCA CUSTOM PART	MF-SC0530-026	Connectors, Interconnects
1	YCB1206 or CBZ1206-202-30	L2	Associated Components	CBZ1206-202-30	Choke
2	MOSFET N-CH 60V 200MA SOT-323	Q1, Q4	Rohm Semiconductor	RJU002N06T106	Discrete Semiconductor Products
2	MOSFET P-CH 20V 1A SSOT3	Q2, Q3	Fairchild Semiconductor	NDS332P	Discrete Semiconductor Products
8	RES 10.0K 1/16W 1% 0402	R1, R25, R27, R32, R62, R73, R84, R85	Rohm Semiconductor	MCR01MZPF1002	Resistors
25	RES 0.0 OHM 1/10W Jumper 0402	R2, R8, R26, R29, R30, R31, R34, R35, R36, R43, R45, R46, R47, R56, R57, R58, R59, R60, R65, R70, R77, R78, R80, R81, R82	Rohm Semiconductor	MCR01MZPJ000	Resistors
5	RES 1.0M OHM 1/10W 5% 0402 SMD	R3, R11, R44, R54, R68	Panasonic - ECG	ERJ-2GEJ105X	Resistors
9	RES 0.0 OHM 1/10W Jumper 0402	R4, R5, R6, R28, R52, R53, R55, R86, R88	Rohm Semiconductor	MCR01MZPJ000	Resistors
16	RES 100 OHM 1/16W 1% 0402	R7, R9, R10, R13, R21, R22, R23, R24, R33, R39, R61, R64, R66, R67, R79, R103	Rohm Semiconductor	MCR01MZPF1000	Resistors
5	RES ARRAY 68 OHM 8 RES 0402	R14, R15, R16, R17, R18	Panasonic - ECG	EXB-2HV680JV	Resistors
2	RES 4.70K 1/10W 1% 0402	R19, R20	Panasonic - ECG	ERJ-2RKF4701X	Resistors
2	RES 10.0 OHM 1/16W 1% 0402	R40, R42	Rohm Semiconductor	MCR01MZPF10R0	Resistors
1	RES 2.0M OHM 1/10W 5% 0402 SMD	R48	Panasonic - ECG	ERJ-2GEJ205X	Resistors
1	RES 1.00K 1/16W 1% 0402	R49	Rohm Semiconductor	MCR01MZPF1001	Resistors
2	RES 100K 1/16W 1% 0402	R50, R69	Rohm Semiconductor	MCR01MZPF1003	Resistors
3	RES, 22k Ohm, 0402	R51, R200, R201	Rohm Semiconductor	MCR01MZPF2202	Resistors
1	RES 68.0 OHM 1/16W 1% 0402	R63	Panasonic - ECG	ERJ-2RKF68R0X	Resistors
1	Option Switch Pads (Left Side)	S2	C&K Components	HDT0001	Switches
1	Option Switch (Right Side)	S3	C&K Components	HDT0001	Switches
1	IC, VREG, 2.0V TI	U1	Texas Instruments	TLV71320DQNR	Integrated Circuits (ICs)
1	Microchip Flash SST25VF080B-50-4C-QAF	U2	Microchip Technology	SST25VF080B-50-4C-QAF	Flash

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3	IC REG LDO 250MA 2.5V SOT23-3	U3, U7, U13	Microchip Technology	MCP1700T-2502E/TT	Integrated Circuits (ICs)
1	ST Micro TS4990 Audio Amplifier	U4	STMicroelectronics	TS4990IST	Integrated Circuits (ICs)
1	IC PIC MCU FLASH 100TQFP 12MM	U5	Microchip Technology	PIC24FJ256GB110-I/PT	Integrated Circuits (ICs)
1	IC SENSOR THERMAL 2.3V SC70-5	U6	Microchip Technology	MCP9700T-E/LT	Sensors, Transducers
1	IC ACCELEROMETER 3AXIS 16-LGA	U8	STMicroelectronics	LIS331DLTR	Sensors, Transducers
1	USB Interface IC USB to Serial UART Enhanced IC QFN-32	U9	FTDI	FT232RQ-REEL	USB Interface IC
1	IC REG LDO 500MA 3.0V 8DFN	U11	Microchip Technology	MCP1725-3002E/MC	Integrated Circuits (ICs)
1	IC DAC 12BIT NV EEP I2C 6DFN	U12	Microchip Technology	MCP4726A0T-E/MAY	Integrated Circuits (ICs)
1	Analog Switch NC7WB66 (QFN)	U14	Fairchild Semiconductor	FSA266L8X	Analog Switch ICs
1	IC VOLT DETECTOR LP 2.1V SOT-23	U15	STMicroelectronics	STM1061N21WX6F	Integrated Circuits (ICs)
1	CRYSTAL 3.656MHZ 12PF SMD	Y1	ECS International	CUSTOM PART - BCA SUPPLIED ECS-036.56-CDX-0737	