

STCOMET MAIN BOARD BOM

Revision: V531

ST Microelectronics

Item	Quantity	Reference	Part	Description	Part Number	Manufacturer	Package
1	1	BT1	CR-2032/BN	BATTERY CR2032 LITHIUM 3V 180mAH	CR-2032/BN	PANASONIC CORP	BAT. HOLDER_3003
2	1	CN1	42376 / 22-28-6030 central pin#2 removed	CONN 3P edge 2.54m Molex series 42376 with centered pin removed	22-28-6030 2 pins	MOLEX	CON-MOLEX-42376-H-3_2PINS
3	2	CN2,CN3	CN-USB	CONN Mini USB2.0 SMT	UX60SC-M8-55T	HIROSE	CON-USB-MOLEX-54819-0519
4	2	CP1,CP2	NP	Copper for GNDs connection	Copper 1812		COPPER1812
5	1	CP3	NP	Copper for GNDs connection	Copper 1005mm		COPPER1005mm
6	2	C1,C17	27PF	CAP CER 27pF 50V COG 0603	GRM1885C1H270JA01D	MURATA	C0603
7	2	C2,C18	4.7PF	CAP CER 4.7pF 50V COG 0603	GRM1885C1H4R7CZ01D	MURATA	C0603
8	14	C3,C4,C5,C8,C13,C14,C15,C16,C27,C28,C34,C35,C41,C42	100NF	CAP CER 100nF 50V X7R 0603	GRM188R71H104KA93D	MURATA	C0603
9	2	C6,C10	1UF	CAP CER 1µF 25V X5R 0805	C0805C105K3PACTU	KEMET	C0805
10	2	C7,C12	22UF	CAP CER 22µF 25V X5R 1206	GRM31CR61E226KE15L	MURATA	C1206
11	1	C19	NP	CAP PET 15nF 300VAC	ECQU3A153MG_NP	PANASONIC	ECQU3A153MG
12	1	C20	470NF	CAP PP 470nF 330VAC 265X100x165-P225	B32913A3474M	EPCOS B32913A3474M	CAPP-26.5X10.0X16.5-P22.5_NC
13	4	C21,C85,C121,C122	NP	CAP NP 0402	C_NP_0402		C0402
14	10	C22,C23,C24,C25,C26,C29,C33,C84,C95,C108	10NF	CAP CER 10nF 25V X7R 0603	06033C103KAT2A	AVX	C0603
15	2	C30,C31	4.7NF	CAP CER 4.7nF 50V X7R 0603	06035C472KAZ2A	AVX	C0603
16	1	C32	22NF	CAP CER 22nF 50V X7R 0603	06035C223JAT2A	AVX	C0603
17	1	C36	10UF	CAP CER 10µF 50V X5R 1206	10UF_50V_X5R_1206		C1206
18	48	C37,C44,C48,C49,C50,C52,C55,C56,C57,C59,C61,C63,C65,C67,C70,C71,C72,C73,C74,C75,C76,C77,C78,C79,C80,C81,C82,C86,C91,C92,C93,C94,C96,C97,C99,C100,C101,C103,C104,C105,C107,C109,C110,C113,C114,C115,C116,C117	100NF	CAP CER 100nF 16V X7R 0402	GRM155R71C104KA88D	MURATA	C0402
19	1	C38	2.2UF	CAP CER 2.2uF 6.3V X7R	2.2UF_6.3V_X7R_0603		C0603
20	3	C39,C40,C43	10UF	CAP CER 10µF 25V X5R 1206	GRM31CR61E106KA12L	MURATA	C1206
21	10	C45,C46,C51,C53,C54,C64,C66,C68,C69,C118	10UF	CAP CER 10µF 10V X7R 0805	GRM21BR71A106KE51L	MURATA	C0805
22	2	C47,C98	1UF	CAP CER 1UF 10V X7R 0603	1UF_10V_X7R_0603		C0603
23	3	C58,C60,C62	NP	CAP NP 0805	C_NP_0805		C0805
24	1	C83	47PF	CAP CER 47PF 6V3 X5R 0402	47PF_6V3_X5R_0402		C0402
25	1	C87	12PF	CAP CER 12pF 50V COG 0603	12PF_50V_COG_0603		C0603
26	1	C88	10PF	CAP CER 10PF 50V COG 0603	10PF_50V_COG_0603		C0603
27	2	C102,C106	4.7UF	CAP CER 4.7UF 6V3 X5R 0603	4.7UF_6V3_X5R_0603		C0603
28	2	C111,C112	33PF	CAP CER 33pF 50V COG 0603	GRM1885C1H330JA01D	MURATA	C0603
29	2	C119,C120	CLOSE	CAP foot print in solderbridge 0603	C_CLOSE_0603		C0603
30	5	DL1,DL2,DL3,DL7,DL8	RED	RED LEDC-0603	LED_RED_0603_2mA	LITE-ON	LEDC-0603_RED
31	4	DL4,DL5,DL6,DL13	GREEN	GREEN LEDC-0603	LED_GREEN_0603_2mA	LITE-ON	LEDC-0603_GREEN
32	5	DL9,DL10,DL11,DL12,DL14	ORANGE	ORANGE LEDC-0603	LED_ORANGE_0603_2mA	LITE-ON	LEDC-0603_ORANGE
33	4	D1,D2,D3,D4	STPS1L30A	Power Schottky LOW DROP POWER SCHOTTKY RECTIFIER	STPS1L30A	STMICROELECTRONICS	DIODE-STPS1L30A
34	1	D5	NP	DIODE DIAC	DIODE DIAC		DIODE-SMB
35	1	D6	SM6T18CA	DIODE SM6T18CA - DIODE TVS SMB 600W 18V	SM6T18CA	STMICROELECTRONICS	DIODE-SM6T18CA
36	2	D7,D8	SM6T10CA	DIODE SM6T10CA - DIODE TVS 10V 600W BI SMB RL	SM6T10CA	STMICROELECTRONICS	DIODE-SM6T6V8CA
37	1	D9	SMAJ15CA	DIODE, TVS, SMAJ15CA, 15V, 20.6A, DO-214AB	SMAJ15CA	STMICROELECTRONICS	
38	1	D10	STTH1L06A	Ultrafast 600V TURBO 2 ULTRAFAST HIGH VOLTAGE RECTIFIER	STTH1L06A	STMICROELECTRONICS	DIODE-STTH1L06A
39	1	D11	MM3Z3V0C	ZENER VOLTAGE REGULATOR 2.0 V 3V 200mW	MM3Z3V0C	Fairchild	SOD323
40	1	D13	STTH102A	High efficiency Ultra Fast Diode	STTH102A	STMICROELECTRONICS	DIODE-STTH102A
41	1	D14	NP (BAT54J)	Small Signal Schottky diode	NP (BAT54J)	STMICROELECTRONICS	DIODE-BAT54J
42	6	FB1,FB2,FB3,FB4,FB5,FB6	BLM18AG331SN1D	FERRITE BEAD,330 OHM,0603	BLM18AG331SN1D	MURATA	L0603
43	1	F1	4A	MCMET 4A MULTICOMP	MCMET 4A MULTICOMP	MULTICOMP	
44	2	H1,H2	NP	Metal Hole 1mm	Hole-1mm		TP-1MM
45	1	H3	NP	Metal Hole 2mm	Hole-2mm		TP-2MM
46	1	ISO1	TLP781 (GB)	OPTOCOUPLEUR SORTIE TRANSISTOR VDE	TLP781	TOSHIBA	TLP781GB
47	6	JP1,JP2,JP8,JP10,JP11,JP12	SHORT	Solder Bridge with Copper Short	Solder Bridge SHORT		
48	6	JP3,JP4,JP5,JP6,JP7,JP9	OPEN	Solder Bridge	Solder Bridge		SOLDER-BRIDGE
49	7	J1,J2,J3,J4,J8,J11,J15	CLOSE	JUMP254P-M-2	22-28-4023_C	MOLEX	JUMPER-CLOSE

50	1	J5	HEADER 4	CONN,HDR,W/ FRIC LCK,4P,2.54MM	22-27-2041	MOLEX	CON-22-27-2041
51	1	J6	MKDS 1,5/ 2-5,08	Screw connector 2 poles	MKDS 1,5/ 2-5,08	PHOENIX CONTACT	MKDS1.5/2-5.08
52	1	J7	NEB 21 R	DCJACK21MM	NEB 21 R	Lumberg	DCJACK21MM-R5-448-382
53	2	J9,J10	CLOSE 3-2	JUMP254P-M-3	22-28-4033_C23	MOLEX	JUMPER-3-CLOSE3_2
54	1	J13	42376 / 22-28-6040	CON 4P edge 2.54m Molex series 42376	22-28-6040	MOLEX	CON-MOLEX-42376-H-4
55	3	J16,J21,J23	OPEN	JUMP254P-M-2	22-28-4023_O	MOLEX	JUMPER-OPEN
56	1	J17	NP	CON-RIGHT ANGLE-10X2-180M	TST-110-04-L-D_NP	SAMTEC	TST-110-04-L-D
57	1	J20	FX10A-120S/12-SV(71)	CONN 120P high density EMBASE RECEPTACLE. 0.5MM. GUIDE. 120	FX10A-120S/12-SV(71)-COMET-M	HIROSE	FX10A-120S/12-SV_COMET
58	1	J22	FTSH-105-01-L-DH-A	CON 5*2 SMD Right Angle	FTSH-105-01-L-DH-A	SAMTEC	FTSH-105-01-L-DH-A
59	1	J24	56000001009	Radial Lead Micro Fuseholder	56000001009	LITTELFUSE	FUSE-HOLDER-56000001009
60	1	J26	3003	HOLDER BATT SMD CR2032	3003	KEystone	BAT HOLDER_3003
61	9	J27,J28,J29,J30,J31,J32,J33,J34	JUMPER 2.54	JUMPER FEMALE METAL CONTACT	ETAME 3131730000430	COM/KONTEL	
62	1	J37	8191-7	SCREW CONNECTOR one pole	8191-7	Keystone	KEY8191
63	1	L1	15UH	INDUCTOR 15uH 4.1A	7447714150	WURTH ELEKTRONIK	IND-EPCOS-B82464G4
64	1	L2	470uH	INDUCTOR 470uH 0.22A	744045471	WURTH ELEKTRONIK	
65	3	L3,L4,L5	BLM31PG330SN1	BLM31PG330SN1	BLM31PG330SN1	MURATA	L1206
66	2	L6,L7	CLOSE				
67	1	L8	NP				
68	6	M1,M3,M5,M6,M8,M9		HOLE	HOLE		HOLE
69	3	M2,M4,M7	OPTICAL_TARGET	OPTICAL_TARGET	OPTICAL_TARGET		OPTICAL_TARGET
70	6	M10,M11,M12,M13,M14,M15	NYLON; M3; L=12mm	Column NYLON; M3; L=12mm	ENISO-A3050-E1-12	ACCEL ENISO	
71	4	M16,M17,M18,M19	BRASS; M3; L1=5mm; L2=5mm	Column BRASS; M3; L1=5mm; L2=5mm	BN3321.1385119	BOSSARD	
72	6	M20,M21,M22,M23,M24,M25	NYLON; M3; L=4mm	SCREW; NYLON; M3; L=4mm	BN1061.1401165	BOSSARD	
73	56	N1,N2,N3,N4,N5,N6,N7,N8,N9,N10,N11,N12,N13,N14,N15,N16,N17,N18,N19,N20,N21,N22,N23,N24,N25,N26,N27,N28,N29,N30,N31,N32,N33,N34,N35,N36,N37,N38,N39,N40,N41,N42,N43,N44,N45,N46,N47,N48,N49,N50,N51,N52,N53,N54,N55,N56	TP	Pad 1.7mm for test needle	NEEDLE-PAD-1.7mm		TPSMD-1.7MM
74	2	R1,R15	2.00K	RESISTOR, 2.00K OHM 1/16W 1% 0603 SMD	ERJ-3EKF2001V	PANASONIC CORP	R0603
75	2	R2,R16	6.8K	RESISTOR, 6.80K OHM 1/10W 1% 0603 SMD	ERJ-3EKF6801V	PANASONIC CORP	R0603
76	15	R3,R4,R6,R7,R10,R11,R13,R14,R28,R51,R71,R182,R184,R185,R186	47K	47K OHM 1% 1/10W	ERJ-3EKF4702V	PANASONIC CORP	R0603
77	79	R5,R12,R18,R19,R47,R49,R50,R52,R55,R62,R65,R76,R89,R90,R91,R92,R93,R94,R95,R96,R97,R98,R99,R100,R101,R102,R103,R104,R105,R106,R107,R108,R109,R110,R111,R112,R113,R114,R115,R116,R117,R118,R119,R120,R121,R122,R123,R124,R125,R126,R127,R128,R129,R130,R131,R132,R133,R134,R135,R136,R137,R138,R139,R140,R141,R142,R143,R144,R145,R146,R147,R148,R149,R150,R151,R152,R153,R154,R155	OR	0.0 OHM 5% 1/10W 0603	RC0603JR-070RL	YAGEO	R0603
78	3	R8,R9,R56	NP	RES NP 0805	R_NP_0805		R0805
79	2	R17,R207	NP	RES NP 1206	R_NP_1206		R1206
80	1	R20	62R	RES 62 OHM 1% 1/10W	ERJ3EKF62R0V	PANASONIC CORP	R0603
81	2	R21,R22	49.9R	RESISTOR, 49.9 OHM 1/16W 1% 0603 SMD	ERJ-3EKF49R9V	PANASONIC CORP	R0603
82	3	R23,R26,R27	33K	RES 33K OHM 1/4W 1% 1206	ERJ-8ENF3302V	PANASONIC CORP	R1206
83	6	R24,R39,R43,R45,R48,R80	1.00K	RESISTOR, 1.00K OHM 1/10W 1% 0603 SMD	ERJ-3EKF1001V	PANASONIC CORP	R0603
84	1	R25	100K	100K OHM 5% 1/8W	ERJ6GEY104V	PANASONIC CORP	R0805
85	1	R29	10M	10M OHM 5% 1/10W	ERJ3GEYJ106V	PANASONIC CORP	R0603
86	2	R30,R31	220K	RES 220K OHM 1/4W 1% 1206 SMD	ERJ-8ENF2203V	PANASONIC CORP	R1206
87	2	R32,R33	120R	120M OHM 1% 1/10W	120R_1%,0603		R0603

88	4	R34,R35,R37,R41	NP	RES NP 0204-Mini-MELF	R_NP_0204-Mini-MELF		0204_Mini-MELF
89	2	R36,R38	270K	RES 270K OHM 1% 50ppm/K 1/4W SMD	270K_1%_50ppm/K_0204-Mini-M		0204_Mini-MELF
90	1	R40	240K	RES 240K OHM 1% 50ppm/K 1/4W SMD	240K_1%_50ppm/K_0204-Mini-M		0204_Mini-MELF
91	1	R42	0.3mR - DO NOT SOLDER	SHUNT-BKW-M Equiped-0.3 mOhm	SHUNT-BKW-M P	Isabellenhutte	SHUNT-BKW-M
92	1	R44	470R	RES 470 OHM 1% 50ppm/K 1/4W SMD	470R_1%_50ppm/K_0204-Mini-M		0204_Mini-MELF
93	1	R46	6.8R	RES 6.8 OHM 1% 50ppm/K 1/4W SMD	6.8R_1%_50ppm/K_0204-Mini-M		0204_Mini-MELF
94	2	R57,R58	75R	75 OHM 1% 0.75W	MCPWR10FTEQ0750	MULTICOMP	R2010
95	1	R59	22K	RES 22KOHM 1/10W 5% 0603 SMD	22K_5%_0603		R0603
96	1	R60	4.7K	RES 4.7K OHM 5% 1/10W 0603 SMD	4.7K_5%_0603		R0603
97	3	R61,R171,R173	2.2K	RES 2.2KOHM 1/10W 5% 0603 SMD	2.2K_5%_0603		R0603
98	9	R63,R69,R70,R78,R79,R88,R183,R187,R208	NP	RES NP 0603	R_NP_0603		R0603
99	4	R64,R178,R179,R180	10K	RES 10K OHM 5% 1/10W 0603 SMD	10K_5%_0603		R0603
100	5	R66,R67,R158,R159,R166	4.7K	4.7K OHM 5% 1/10W	ERJ-3GEYJ472V	PANASONIC CORP	R0603
101	19	R77,R81,R157,R160,R162,R164,R165,R167,R168,R169,R174,R175,R176,R177,R181,R193,R194,R195,R196	22R	RES 22.0 OHM 1/10W 5% 0603 SMD	22R_5%_0603		R0603
102	2	R156,R192	820R	820R OHM 5% 1/10W	820R_5%_0603		R0603
103	2	R161,R163	47R	RES 47 OHM 1/10W 5% 0603 SMD	47R_5%_0603		R0603
104	2	R170,R172	560R	RES 560R OHM 1/10W 5% 0603 SMD	560R_5%_0603		R0603
105	4	R188,R189,R190,R191	2.7K	RES 2.7K OHM 5% 1/10W 0603 SMD	2.7K_5%_0603		R0603
106	6	R197,R198,R199,R200,R201,R202	130R	RES 130R OHM 1/10W 5% 0603 SMD	130R_5%_0603		R0603
107	1	R203	8.2K	RES 8.2K OHM 5% 1/10W 0603	8.2K_5%_0603		R0603
108	1	R204	1.5K	RES 1.5K OHM 1/10W 5% 0603 SMD	1.5K_5%_0603		R0603
109	1	R205	1M	RES 1M OHM 1/10W 5% 0603 SMD	1M_5%_0603		R0603
110	1	SIOV1	B72214S0461K101	B72214S0461K101	B72214S0461K101	EPCOS	
111	1	SW1	ADE0204	DIP Switch 2 channels	ADE0204	TE CONNECTIVITY	ADE0204
112	1	S1	EVQQ2H03W	SWITCH BUTTON SMD	EVQQ2H03W	PANASONIC CORP	BUTTON_EVQQ2
113	7	TP1,TP2,TP3,TP4,TP5,TP35,TP36	TP	Point Test TPTH-ANELLO-1MM black	TPTH-ANELLO-1MM	KEYSTONE	TPTH-ANELLO-1MM
114	1	TP6	KEYSTONE-5000	TEST POINT RED	KEYSTONE 5000	KEYSTONE	KEYSTONE5000
115	4	TP7,TP8,TP9,TP10	TP	Point Test CONN 1x1 TPTH-PERNO-13MM	TPTH-PERNO-13MM	Distrelec	TPTH-PERNO-13MM
116	21	TP13,TP14,TP15,TP17,TP18,TP19,TP20,TP21,TP22,TP23,TP24,TP25,TP26,TP27,TP28,TP29,TP30,TP31,TP32,TP33,TP34	TP	Point Test PCB TPSMD-40RD	TPSMD-40RD		TPSMD-40RD
117	0	T1	WE 750510231 TDK SRW13EP-X05H002	Power Line Transformer - PTH	WE 750510231 TDK SRW13EP-X05H002	WURTH ELEKTRONIK	WE 750510231
118	1	T1-2	WE 750510682 TDK SRW13EP-X07S002	Power Line Transformer- SMD	WE 750510682 TDK SRW13EP-X07S002	WURTH ELEKTRONIK	WE 750510682
119	0	T2	T60404-E4626-X002	Current Transformer	T60404-E4626-X002	VACUUMSCHMELZE	
120	1	U1	IC-STCOMET10	IC-COMET10	IC-COMET10	STMICROELECTRONICS	COMET10
121	1	U2	L2293Q	Push-pull four channel driver with diodes	L2293Q	STMICROELECTRONICS	L2293Q
122	1	U3	L4931CDT33	VERY LOW DROP VOLTAGE REGULATOR WITH INHIBIT	L4931CDT33	STMICROELECTRONICS	L4931XX
123	2	U4,U9	USBLC6-2P6	USBLC6-2P6 - RESEAU DE DIODE TVS USB2	USBLC6-2P6	STMICROELECTRONICS	USBLC6-2P6
124	2	U5,U10	IC-ADUM4160	ADUM4160, USB ISOLATOR	ADUM4160	Analog Device	ADUM4160
125	1	U6	M24512-WMN6T	I2C MEMORY SOP127P-620X168-8	M24512-WMN6T	STMICROELECTRONICS	M24512-WMN6TG
126	1	U7	IC-CP2105-F01-GM	Uart over USB bridge, QFN050P	CP2105-F01-GM	Silicon Labs	CP2105-F01-GM
127	1	U8	W25Q16JV	FLASH SPI W25Q16JV 16Mbits WINBOND	W25Q16JV	WINBOND	W25Q16JV
128	1	U11	STM32F103CBT6 LQFP48	IC, MCU, RISC, 72 MHz, 3.6V, 32-BIT, 48-PIN, LQFP	STM32F103CBT6	STMICROELECTRONICS	STM32F103CBT6
129	1	Y1	TSX-3225 24MHZ,10PPM,9PF	XTAL,24MHZ,10PPM,9PF	TSX-3225_0	MICRO CRYSTAL	OSC-EPSON-TSX3225
130	1	Y2	MS1V-T1K XTAL 32.768 KHZ SMT 12.5PF 20PPM	XTAL 32.768 KHZ SMT 12.5PF 20PPM	MS1V-T1K 32.768kHz 12.5pF +-20PPM	Micro Crystal	XTAL-MS1VT1K
131	1	Y3	8MHz	XTAL 8MHz-30PPM-20pF	ATS08ASM-1E	CTS	ATS08ASM-1E