



# Bill of Materials

TI DESIGNS

TIDM-HAHSCTO

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
TIDM-HAHSCTO LAUNCHXL2-RM57									
1	4	C1, C2, C34, C39	33pF	CAP CER 33PF 25V 5% NPO 0201	YAGEO	CC0201JRNPO8BN330	-	C0201	-
2	4	C24, C31, C53, C54	4700pF	CAP CER 4700PF 10V 10% X7R 0201	MURATA ELECTRONICS	GRM033R71A472KA01D	-	C0201	-
3	5	C25, C27, C30, C32, C33	22uF	CAP CER 22UF 6.3V 20% X5R 0805	SAMSUNG ELECTRO-MECHANICS AMERICA INC	CL21A226MQ0NNNE	-	C0805K	-
4	4	C28, C65, C67, C71	1uF	CAP CER 1UF 6.3V 10% X5R 0402	MURATA ELECTRONICS	GRM155R60J105KE19D	-	C0402K	-
5	12	C3, C7, C11, C14, C18, C22, C36, C37, C41, C44, C56, C74, C77, C78, C79, C80, C81, C82, C83	1000pF	CAP CER 1000PF 25V 10% X7R 0201	YAGEO	CC0201KRX7R8BB102	-	C0201	DNP C77-C83
6	4	C4, C8, C46, C50	10uF	CAP CER 10UF 10V 10% X5R 0805	KEMET	C0805C106K8PACTU	-	C0805K	-
7	24	C5, C9, C12, C15, C17, C19, C21, C29, C38, C43, C45, C47, C48, C52, C58, C59, C60, C61, C63, C68, C73, C75, C76, C84	0.1uF	CAP CER 0.1UF 6.3V 20% X5R 0201	SAMSUNG ELECTRO-MECHANICS AMERICA INC	CL03A104MQ3NNNC	-	C0201	-
8	1	C51	4.7uF	CAP CER 4.7UF 6.3V 10% X5R 0603	YAGEO	CC0603KRX5R5BB475	-	C0603K	-
9	1	C55	100uF	CAP CER 100UF 6.3V 20% X5R 1206	MURATA ELECTRONICS	GRM31CR60J107ME39L	-	C1206K	-
10	14	C6, C10, C13, C16, C20, C23, C35, C40, C42, C49, C57, C62, C70, C72	0.01uF	CAP CER 10000PF 6.3V X5R 0201	SAMSUNG ELECTRO-MECHANICS AMERICA INC	CL03A103KQ3NNNC	-	C0201	-
11	2	FB1, FB2	30 OHM @ 100MHz	FERRITE CHIP 30 OHM 6000MA 0603	SAMSUNG ELECTRO-MECHANICS AMERICA INC	CIS10P300AC	-	R0603	-

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12	2	J1/J3, J2/J4	-	2X10 SOCKET STRIP	MAJOR LEAGUE ELECTRONICS	CRD-081413-A-F	-	1x10 (x2)	Single 2x10 0.100" socket used in two adjacent 1x10 0.100" locations
13	2	J10, J9	-	50 Position Receptacle Connector 0.100" (2.54mm) Through Hole Gold	Sullins	SFH11-PBPC-D25-ST-BK	-	R1x50-0100	Add for TIDM-HAHSCTO, DNP on Production LaunchPad
14	1	J11	-	CONN MAGJACK 1PORT 100 BASE-TX	ABRACON LLC	ARJC02-111006K	-	ARJC02-111006K	-
15	4	J12, J13, J14, J15	-	CONN HDR 60POS 0.4MM SMD GOLD	HIROSE ELECTRIC CO LTD	DF40C-60DP-0.4V(51)	-	DF40C-60DP-0.4V(51)	-
16	1	J16	-	CONN USB MICRO B RECPT SMT R/A	FCI	10118192-0001LF	-	USB_MICRO_B_SMD	-
17	0	J17	-	CONN POWER JACK 2.5X5.5MM HI CUR	SAMTEC INC	PJ-002BH-SMT-TR	-	CUI_PJ002BH	DNP
18	0	J18	-	CONN HEADER 20POS 1.27MM DUL SMD	SAMTEC INC	FTR-110-51-S-D-06	-	SAMTEC-FTR-110-51-S-D-06	DNP
19	0	J19	-	CONN HEADER 10POS DUAL .05" SMD	SAMTEC INC	FTSH-105-01-F-DV-ND	-	FTSH-105-01-F-DV-ND	DNP
20	2	J5/J7, J6/J8	-	2X10 SOCKET STRIP	MAJOR LEAGUE ELECTRONICS	CRD-081413-A-F	-	1x10 (x2)	Add for TIDM-HAHSCTO, DNP on Production LaunchPad
21	0	JP2, JP3, JP4, JP5, JP6	-	CONN HEADER 4POS .100 DUAL SMD	SULLINS CONNECTOR SOLUTIONS	GEC02DABN-M30	-	JP1_SHORT	DNP
22	2	L1, L2	1uH	FIXED IND 1UH 2.3A 48 MOHM SMD	SAMSUNG ELECTRO-MECHANICS AMERICA INC	CIG22E1R0MNE	-	L2520P	-
23	2	LED1, LED9	RED	LED CHIPLED 633NM RED 0603 SMD	OSRAM OPTO SEMICONDUCTORS INC	LS Q976-NR-1	-	CHIPLED-0603	-
24	5	LED2, LED3, LED6, LED7, LED8	GRN	LED 0603 YW/GN 570NM WATER CLEAR	QT BRIGHTTEK (QTB)	QBLP601-AG	-	CHIPLED-0603	-
25	1	PTC1	3A IH / 5A IT	PTC RESTTBLE 3.0A 6V CHIP 1812	BEL FUSE INC	OZCG0300FF2B	-	R1812	-
26	7	R1, R2, R3, R4, R8, R9, R11, R47	0	RES SMD 0.0 OHM JUMPER 1/20W	YAGEO	RC0201JR-070RL	-	R0201	DNP R4
27	2	R18, R28	27K	RES SMD 27K OHM 5% 1/20W 0201	YAGEO	RC0201JR-0727KL	-	R0201	-
28	1	R21	5.1	RES SMD 5.1 OHM 5% 1/20W 0201	SAMSUNG ELECTRO-MECHANICS AMERICA INC	RC0603J5R1CS	-	R0201	-
29	1	R29	0.01	RES SMD 0.01 OHM 1% 1/4W 0603	SUSUMU	RL0816T-R010-F	-	R0603	-
30	2	R30, R31	330K	RES SMD 330K OHM 1% 1/20W 0201	SAMSUNG ELECTRO-MECHANICS AMERICA INC	RC0603F334CS	-	R0201	-

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
31	3	R34, R35, R43	220K	RES SMD 220K OHM 1% 1/20W 0201	SAMSUNG ELECTRO-MECHANICS AMERICA INC	RC0603F224CS	-	R0201	-
32	1	R44	1M	RES SMD 1M OHM 5% 1/20W 0201	YAGEO	RC0201JR-071ML	-	R0201	-
33	1	R45	61.9K	RES SMD 61.9K OHM 1% 1/20W 0201	VISHAY DALE	CRCW020161K9FKED	-	R0201	-
34	3	R5, R20, R25	4.87K	RES SMD 4.87K OHM 1% 1/20W 0201	VISHAY DALE (VA)	CRCW02014K87FKED	-	R0201	-
35	3	R6, R19, R26	8.45K	RES SMD 8.45K OHM 1% 1/20W 0201	SAMSUNG ELECTRO-MECHANICS AMERICA INC	RC0603F8451CS	-	R0201	-
36	8	R7, R23, R24, R36, R37, R38, R40, R46	49.9	RES SMD 49.9 OHM 1% 1/20W 0201	VISHAY DALE	CRCW020149R9FNED	-	R0201	-
37	8	RP1, RP2, RP3, RP4, RP5, RP6, RP7, RP8	56	RES ARRAY 56 OHM 8 RES 1506	ROHM SEMICONDUCTOR	MNR18E0APJ560	-	RP8_1506_1606	-
38	4	RP9, RP10, RP11, RP12	2.2K	RES ARRAY 2.2K OHM 8 RES 1506	ROHM SEMICONDUCTOR	MNR18E0APJ222	-	RP8_1506_1606	-
39	5	S1, S2, S3, S4, S5	-	SWITCH TACTILE SPST-NO 0.05A 12V	C&K COMPONENTS	PTS645SM43SMTR92 LFS	-	CK_PTS645_SMD	-
40	1	U1	-	Hercules 16- and 32-Bit RISC Flash Microcontroller	TEXAS INSTRUMENTS	PRM57L843ZWTT	-	TI-ZWT337	-
41	1	U10	1K	TRIMMER 1K OHM 0.05W SMD	MURATA ELECTRONICS	PVZ2A102C04B00	-	SOT23	Originally Temp Sensor IC
42	1	U2	-	IC SUPERVISORY CIRCUIT SOT-23-6	TEXAS INSTRUMENTS	TPS3106K33DBVR	-	TI-DBV6	-
43	1	U3	-	TVS DIODE 6SON	TEXAS INSTRUMENTS	TPD4E004DRYR	-	TI-DRY6	-
44	1	U4	-	TXRX PHY IEEE 1PORT 1588 48WQFN	TEXAS INSTRUMENTS	DP83630SQE/NOPB	-	TI-RHS-SQA48	-
45	1	U5	-	IC REG BUCK SYNC ADJ 2A 20TSSOP	TEXAS INSTRUMENTS	LM26420XMHX/NOPB	-	TI-PWP-MXA20A	-
46	1	U6	-	IC OPAMP CURR SENSE 14KHZ SC70-6	TEXAS INSTRUMENTS	INA210BIDCKR	-	TI-DCK6	-
47	1	U7	-	IC MCU 32BIT 1024KB FLASH 128TQF	TEXAS INSTRUMENTS	TM4C129ENCPTI3	-	TI-PDT128	-
48	1	U8	-	IC VREF SHUNT 2.048V SOT23	TEXAS INSTRUMENTS	LM4040D20IDBZR	-	TI-DBZ3	-
49	1	U9	-	IC PWR DIST SWITCH ADJ SOT23-6	TEXAS INSTRUMENTS	TPS2553DBVR	-	TI-DBV6	-
50	2	Y1, Y2	16.00MHZ	CRYSTAL 16.0000MHZ 20PF SMD	ECS INC	ECS-160-20-3X-TR	-	CSM-3X	-



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TI DESIGNS

TIDM-HAHSCPTO

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
TIDM-HAHSCPTO HSCPTOTEST									
1	8	J1, J2, J3, J4, J5, J6, J7, J8	-	CONN HEADER 10POS .100"" SNGL TIN	SAMTEC INC	TSW-110-07-T-S	-	1x10	-
2	2	J9, J10	-	CONN HEADER 50POS .100"" SNGL TIN	SAMTEC INC	TSW-150-07-T-S	-	1x50	-
3	12	J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J22	-	20 Positions Header, Shrouded Connector 0.100"	Sullins	SBH11-PBPC-D10-ST-BK	-	HDRS2X10-0100	-

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