

# Bill of Materials

HiFive1.A01

Source Data From: HiFive1.A01.PrjPcb  
 Project: HiFive1.A01  
 Variant: None

Item #	Quantity	Manufacturer	Manufacturer PN	Description	Value	Designator
1	6	Murata Electronics	GRM188R60J106ME47J	10µF 6.3V Ceramic Capacitor X5R 0603	10µF	C1, C46, C47, C50, C52, C55
2	4	Murata Electronics	GRM1555C1H120JA01D	CAP CER 12PF 50V NP0 0402	12pF	C12, C13, C39, C40
3	1	Murata Electronics	GRM155R71H103KA88D	10nF 50V Ceramic Capacitor X5R 0402	10nF	C16
4	27	Murata Electronics	GRM155R71C104KA88J	0.10µF 16V Ceramic Capacitor X7R 0402	0.1µF	C2, C3, C4, C5, C6, C8, C9, C10, C11, C17, C18, C19, C20, C21, C22, C23, C25, C26, C27, C28, C29, C30, C31, C33, C34, C38, C44
5	4	Murata Electronics	GRM21BR61C475KA88L	4.7µF 16V Ceramic Capacitor X5R 0805	4.7µF	C24, C32, C35, C37
6	1	Murata Electronics	GRM21BR60J226ME39L	22µF 6.3V Ceramic Capacitor X5R 0805	22µF	C42
7	1	Murata Electronics	GRM21BR61E106KA73L	10µF ±10% 25V Ceramic Capacitor X5R 0805	10µF	C43
8	1	Murata Electronics	GRM155R71E333KA88D	33nF 25V Ceramic Capacitor X7R 0402	33nF	C45
9	2	Murata Electronics	GRM1555C1H220JA01J	22pF 50V Ceramic Capacitor C0G, NP0 0402	22pF	C48, C54
10	2	Murata Electronics	GRM188R61C105KA93D	1µF 16V Ceramic Capacitor X5R 0603	1µF	C49, C51
11	2	Fairchild Semiconductor	BAT54	Diode Schottky 30V 200mA Surface Mount SOT-23-3 (TO-236)	BAT54	D1, D4
12	1	Littelfuse Inc	SMF12A	TVS DIODE 12VWM 19.9VC SOD123	SMF12A	D12
13	1	Panasonic Electronic Components	DB2W40300L	Diode Schottky 40V 3A (DC) Surface Mount	DB2W40300L	D13
14	4	Littelfuse Inc	PGB1010603NRHF	TVS DIODE 24VWM 150VC 0603	PGB1010603NRHF	D2, D5, D7, D8
15	1	Diodes Incorporated	1N4148WT-7	Diode Standard 80V 125mA Surface Mount SOD-523	1N4148WT-7	D3
16	1	Lite-on Inc.	LTST-C19HE1WT	Red, Green, Blue (RGB) 624nm Red, 525nm Green, 470nm Blue LED Indication - Discrete 1.8V Red, 2.8V Green, 2.8V Blue 0606	RGB	D6
17	2	OSRAM Opto Semiconductors Inc	LG R971-KN-1	Green 570nm LED Indication - Discrete 2.2V 0805	Green	D9, D10
18	2	Laird-Signal Integrity Products	HZ0805E601R-10	FERRITE BEAD 600 OHM 0805	600R	FB1, FB2
19	1	Harwin Inc	M20-9770346	3 Positions Header, Unshrouded, Breakaway Connector 0.100" (2.54mm) Through Hole Tin		J1
20	2	Sullins Connector Solutions	PPTC081LFBN-RC	8 Pin I/O Connector, 8 Pin Power Connector		J2, J6
21	1	Sullins Connector Solutions	PPTC101LFBN-RC	10 Pin Connector		J3
22	1	Sullins Connector Solutions	PPTC061LFBN-RC	6 Pin Connector		J4
23	1	CUI Inc	UJ2-MIBH2-4-SMT	USB - micro B USB 2.0 Receptacle Connector 5 Position Surface Mount, Right Angle, Horizontal		J5
24	1	CUI Inc	PJ-102AH	Power Barrel Connector Jack 2.00mm ID (0.079"), 5.50mm OD (0.217") Through Hole, Right Angle		J7
25	1	Murata Electronics	DFE252012F-1R0M=P2	1µH Shielded Inductor 3.3A 40mOhm	1.0uH	L1
26	2	Murata Electronics	DFE252012P-2R2M=P2	2.2µH Shielded Wirewound Inductor 3A 84 mOhm	2.2uH	L2, L3
27	2	Infineon Technologies	IRLML6402TRPBF	MOSFET P-CH 20V 3.7A SOT-23	P-Channel	Q1, Q5
28	2	Diodes Inc	DMN63D8LDW-7	MOSFET 2N-CH 30V 0.22A SOT363	DMN63D8LDW-7	Q2, Q3
29	1	Yageo	RC0402FR-07100RL	RES SMD 100 OHM 1% 1/16W 0402	100R	R1
30	4	Yageo	RC0402FR-071KL	RES SMD 1K OHM 1% 1/16W 0402	1K	R10, R12, R25, R26
31	5	Yageo	RC0402FR-07330RL	RES SMD 330 OHM 1% 1/16W 0402	330R	R17, R18, R19, R27, R28
32	9	Yageo	RC0402FR-07100KL	RES SMD 100K OHM 1% 1/16W 0402	100K	R2, R3, R5, R6, R9, R11, R13, R30, R34
33	2	Yageo	RC0402FR-0712KL	RES SMD 12K OHM 1% 1/16W 0402	12K	R23, R24
34	1	Yageo	RC0402FR-07820KL	RES SMD 820K OHM 1% 1/16W 0402	820K	R35
35	1	Yageo	RC0402FR-07182KL	RES SMD 182K OHM 1% 1/16W 0402	182K	R36
36	1	Yageo	RC0402FR-07360KL	RES SMD 360K OHM 1% 1/16W 0402	360K	R37
37	1	Yageo	RC0402FR-07180KL	RES SMD 180K OHM 1% 1/16W 0402	180K	R39
38	1	C & K Components	PTS645SM43SMTR92 LFS	Blue Tactile Switch SPST-NO Top Actuated Surface Mount		S1
39	1	C & K Components	PTS645SK43SMTR92 LFS	Red Tactile Switch SPST-NO Top Actuated Surface Mount		S2
40	1	SiFive	FE310-G000-A01	SiFive FE310-G000	SiFive FE310-G000	U1
41	2	Texas Instruments	TXS0108ERGYR	Voltage Level Translator Bidirectional 1 Circuit 8 Channel 60Mbps 20-VQFN (3.5x4.5)	TXS0108ERGYR	U2, U3
42	1	Texas Instruments	TXS0104ERGYR	Voltage Level Translator Bidirectional 1 Circuit 4 Channel 24Mbps 14-VQFN (3.5x3.5)	TXS0104ERGYR	U4
43	1	ISSI	IS25LP128-JBLE	IC FLASH 128MBIT 133MHZ 8SOIC	128Mbit	U5
44	1	FTDI	FT2232HL-REEL	IC USB Bridge, USB to UART, FIFO USB 2.0 UART Interface 64-LQFP	FT2232HL	U6
45	1	Texas Instruments	TPS62133RGTT	Buck Switching Regulator IC Positive Fixed 5V 1 Output 3A 16-VFQFN Exposed Pad	TPS62133RGTT	U7
46	2	Texas Instruments	TPS62290DRVR	Buck Switching Regulator IC Positive Adjustable 0.6V 1 Output 1A 6-WDFN Exposed Pad	TPS62290DRVR	U8, U11
47	1	SiTime	SIT1533AC-H5-D14-32.768D	32.768kHz LVCMOS MEMS (Silicon) Oscillator Surface Mount 1.2 V ~ 3.63 V 1.3µA	32.768KHz	X1
48	1	TXC Corporation	7M-16.000MAAE-T	16MHz ±30ppm Crystal 12pF 80 Ohm	16 MHz	Y1
49	1	Abracon LLC	ABM8G-12.000MHZ-B4Y-T	12MHz ±30ppm Crystal 10pF 120 Ohm -20°C ~ 70°C	12 MHz	Y2

Approved	Notes