

# Bill of Materials

HiFive1.B01.PrjPCB

Source Data From: HiFive1.B01.PrjPCB  
 Project: HiFive1.B01.PrjPCB  
 Variant: None

Creation Date: 28-Feb-19 16:40:37  
 Print Date: 15-Mar-19 1:10:20 AM

Item #	Quantity	Manufacturer	Manufacturer PN	Description	Value	Designator
1	10	Murata Electronics	GRM188R61A106KE69J	CAP CER 10UF 10V X5R 0603	10uF	C1, C6, C7, C10, C11, C14, C15, C22, C28, C29
2	17	Samsung Electro-Mechanics	CL05B104K05NFC	0.10uF 16V Ceramic Capacitor X7R 0402	0.1uF	C2, C3, C4, C5, C8, C9, C17, C18, C19, C20, C23, C24, C25, C26, C27, C30, C31
3	2	Yageo	CC0402JRNPO9BN150	CAP CER 15PF 50V COG/NPO 0402	15pF	C12, C13
4	1	Samsung Electro-Mechanics	CL05B103KB5VPC	CAP CER 10000PF 50V X7R 0402	10nF	C16
5	1	Murata Electronics	GRM21BR60J226ME39L	22uF 6.3V Ceramic Capacitor X5R 0805	22uF	C42
6	2	Murata Electronics	GRM21BR61E106KA73L	10uF ±10% 25V Ceramic Capacitor X5R 0805	10uF	C43, C44
7	4	Murata Electronics	GRM188R61C105KA93D	1uF 16V Ceramic Capacitor X5R 0603	1uF	C45, C47, C48, C50
8	1	Nexperia	PRTR5V0U2X,215	TVS DIODE 5.5V SOT143B	PRTR5V0U2X,215	D1
9	2	Littlefuse	PESD0603-240	TVS Diode 24VWM 45VClamp	PESD0603-240	D2, D5
10	1	Diodes Incorporated	1N4148WT-7	Diode Standard 80V 125mA Surface Mount SOD-523	1N4148WT-7	D3
11	1	Liteon 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
12	2	OSRAM Opto Semiconductors Inc	LG R971-KN-1	Green 570nm LED Indication - Discrete 2.2V 0805	Green	D8, D10
13	1	Littlefuse Inc	SMF12A	TVS DIODE 12VWM 18.9VC SOD123	SMF12A	D12
14	1	Panasonic Electronic Components	DB2W40300L	Diode Schottky 40V 3A (DC) Surface Mount	DB2W40300L	D13
15	1	CNC Tech	3221-10-0300-00	Connector Header Surface Mount 10 position 0.050" (1.27mm)		J1
16	2	Sullins Connector Solutions	PPTC081LFBN-RC	8 Pin I/O Connector		J2, J6
17	1	Sullins Connector Solutions	PPTC101LFBN-RC	10 Pin Connector		J3
18	1	Sullins Connector Solutions	PPTC061LFBN-RC	6 Pin Connector		J4
19	1	Amphenol FCI	10118194-0001LF	USB - micro B USB 2.0 Receptacle Connector 5 Position Surface Mount, Right Angle, Horizontal		J5
20	1	CUI Inc	PJ-102AH	Power Barrel Connector Jack 2.09mm ID (0.0791"), 5.50mm OD (0.2171") Through Hole, Right Angle		J7
21	1	Diodes Inc	DMG2305UX-13	MOSFET P-CH 20V 4.2A SOT23	P-Channel	Q5
22	8	Yageo	RC0402FR-07100RL	RES SMD 100 OHM 1% 1/16W 0402	100R	R1, R11, R14, R22, R23, R24, R25, R26
23	2	Yageo	RC0402FR-0733RL	RES SMD 33 OHM 1% 1/16W 0402	33R	R2, R6
24	9	Yageo	RC0402FR-07100KL	RES SMD 100K OHM 1% 1/16W 0402	100K	R3, R5, R10, R13, R29, R30, R31, R33, R34
25	1	Yageo	RC0402FR-071ML	RES SMD 1M OHM 1% 1/16W 0402	1M	R4
26	3	Yageo	RC0402FR-0722RL	RES SMD 22 OHM 1% 1/16W 0402	22R	R9, R15, R16
27	2	Yageo	RC0402FR-071KL	RES SMD 1K OHM 1% 1/16W 0402	1K	R12, R20
28	5	Yageo	RC0402FR-07330RL	RES SMD 330 OHM 1% 1/16W 0402	330R	R17, R18, R19, R27, R28
29	1	Yageo	RC0402FR-07150KL	RES SMD 150K OHM 1% 1/16W 0402	150K	R32
30	1	C & K Components	PTS645SM43SMTR92 LFS	Blue Tactile Switch SPST-NO Top Actuated Surface Mount		S1
31	1	C & K Components	PTS645SK43SMTR92 LFS	Red Tactile Switch SPST-NO Top Actuated Surface Mount		S2
32	1	SiFive	FE310-G002	SiFive Freedom E310 Microcontroller	FE310-G002	U1
33	1	Espressif Systems	ESP32-SOLO-1	WiFi 802.11n + BT4.2 Chipset Module Single Core with PCB Antenna 18mmx25.5mm	ESP32-SOLO-1	U2
34	1	NXP USA Inc	MK22FN128VLH10	K20 Microcontroller	MK22FN128VLH10	U3
35	1	ON Semiconductor	NCP1117LPST50T3G	IC REG LINEAR 5V 1A SOT223	NCP1117LPST50T3G	U4
36	1	ISSI	IS25LP032D-JBLE	IC FLASH 32MBIT 133MHz 8SOIC 2.3 V - 3.6 V	32Mbit	U5
37	1	Microchip	MIC803-30D2VC3	IC MPU SUPERVISOR SCT0-3	MIC803-30D2VC3	U6
38	1	Richtek USA	RT9080-33GJ5	Linear Voltage Regulator IC Positive Fixed 1 Output 3.3V 600mA TSOT-23-5	RT9080-33GJ5	U7
39	1	Richtek USA	RT9080-18GJ5	Linear Voltage Regulator IC Positive Fixed 1 Output 1.8V 600mA TSOT-23-5	RT9080-18GJ5	U8
40	1	SiTime	SIT1533AI-H4-DCC-32.768E	32.768kHz LVCMS MEMS (Silicon) Oscillator Surface Mount 1.2 V - 3.63 V 1.3uA	32.768KHz	X1
41	1	Epson	TSX-3225 16.0000MF18X-ACO	16MHz ±10ppm Crystal 9PF 60 Ohm	16MHz	Y1

Approved	Notes