

Designator	Description	Manufacturer	ManufacturerPN	Quantity
BT1	CR1225 coin cell holder	Keystone	3001	1
C1, C3, C5	4.7uF 0805 Ceramic Capacitor, 10%, 25V	Generic		3
C2, C7, C9, C10, C13, C14, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C32, C33, C34	100nF 0805 Ceramic Capacitor, 10%, X5R, 25V	Generic		23
C4	2.2uF 0805 Ceramic Capacitor, 10%, 25V	Generic		1
C6	22uF 0805 Ceramic Capacitor, 10%, 6.3V	Generic		1
C8	10nF 0805 Ceramic Capacitor, 20%, X7R, 50V	Generic		1
C11, C12	4p7 0805 Ceramic Capacitor, 50V	Generic		2
C15, C16	1nF 0805 Ceramic Capacitor, 5%, 50V	Generic		2
C31	1uF 0805 Ceramic Capacitor, 10%, 16V	Generic		1
C35	100p 0805 Ceramic Capacitor, 50V	Generic		1
CN1	Box header 2.54mm Vertical 20 way	Molex	70246-2004	1
D1	LED 0805 White	Generic		1
D2, D4, D6	LED 0805 Red	Generic		3
D3, D5, D7	LED 0805 Green	Generic		3
D8	LED 0805 Blue	Generic		1
D9	Dual ESD protection diode SMD	Nexperia	PRTR5V0U2X,215	1
D10	Diode Schottky, 1A, 40V, SOD-123-2	ON Semiconductor	SS14FL	1
J1	VGA HD-25 connector RA through hole	EDAC	634-015-274-992	1
J2	Mini DIN 6 pin through hole	TE	5749180-1	1
J3	Box header 2.54mm Vertical 34 way	Molex	70246-3404	1
J4	USB type B connector RA through hole	Multicomp	USB-B-S-RA	1
J5	Vertical Pin Header Pitch 0.1", Single Row, 3 pins	Würth Elektronik	61300311121	1
L1	Inductor, Multilayer, 2.2uH, 3.1A Isat, SMD	Vishay Dale	IFSC1515AHER2R2M01	1
LS1	3V Buzzer through hole	IMO	41.S78P030A-LF	1
P1, P2	Vertical Pin Header Pitch 0.1", Single Row, 5 pins	Würth Elektronik	61300511121	2
R1, R2, R3, R4, R17, R27, R35, R36, R39	330R 0805 Chip Resistor	Generic		9
R5, R9, R14, R40, R42	4K7 0805 Chip Resistor	Generic		5
R6	17K8 0805 Chip Resistor	Generic		1
R7	3K0 0805 Chip Resistor	Generic		1
R8, R13, R15, R16, R19, R21, R22, R23, R24, R25, R26, R38, R43, R44, R45, R48	10K 0805 Chip Resistor	Generic		16
R10, R41	100K 0805 Chip Resistor	Generic		2
R11, R12, R18, R20, R28	1K0 0805 Chip Resistor	Generic		5
R29, R31, R33, R49, R58, R59	33R 0805 Chip Resistor	Generic		6
R30, R32, R34	100R 0805 Chip Resistor	Generic		3
R37, R46, R51, R55, R56, R57	0R 0805 Chip Resistor	Generic		6
R47	4R7 0805 Chip Resistor	Generic		1
R50	43R 0805 Chip Resistor	Generic		1
R52, R53, R54	75R 0805 Chip Resistor	Generic		3
SW1	4 way DIP switch, through hole	CTS	210-4MS	1
SW2	Tactile Switch, SPST-NO, 0.05A, 12V	E-Switch	TL1014AF160QG	1
TR1, TR2, TR3	N Channel MOSFET 20V SOT23	Taiwan Semiconductors	TSM2302CX	3
U1	SP6205EM5-L-3-0 500mA Low Dropout Voltage Regulator	Exar	SP6205EM5-L-3-3/TR	1
U2	Switching regulator, 1.5 A, adjustable, step-down, 6-Pin DFN	STMicroelectronics	ST1S06PUR	1
U3	xCORE-200 XU series 512 kB RAM TQFP128	XMOS	XU216-512-TQ128-C20	1
U4	Memory, Flash, QSPI, 32Mb, SOIC-8	ISSI	IS25LQ032B-JNLE	1
U5	Voltage Detector, 0.9V, Programmable Delay, OD, SOT23-5	ON Semiconductor	NCP303LSN09T1G	1
U6	Battery-Backed I2C RTC + SRAM & EEPROM	Microchip	MCP79410-I/SN	1
U7, U8	Hex OD buffer SOIC-14	Texas Instruments	SN74LVC07AD	2
U9	Quad Buffer 3-State SOIC-14	Texas Instruments	SN74LVC125AD	1
X1	SMD Crystal, 32.768kHz	Epson Toyocom	FC-135 32.7680KA-AC	1
X2	XTAL Osc XO 24MHz CMOS	Abracon LLC	ASE-24.000MHZ-LC-T	1