

BOM

Qty	Value	Package	Parts	Description	Distributor/PN
1		QFN-44	U1	IC MCU 8BIT 32KB FLASH 44QFN	Digikey: ATMEGA32U4-MU-ND
1		SMD	JP1	CONN MINI USB RCPT RA TYPE B SMD	Digikey: 151-1206-1-ND
1	16M	SMD	Y1	CRYSTAL 16MHZ 8PF SMD	Digikey: 644-1194-1-ND
2	18p	0603	C5, C6	CAP CER 18PF 50V 5% C0G 0603	Digikey: 445-1272-1-ND
3	0.1u	0603	C1, C2, C3	CAP CER 0.1UF 25V 10% X7R 0603	Digikey: 445-1316-1-ND
1	10k	0603	R2	RES 10K OHM 1/10W 1% 0603	Digikey: A106048CT-ND
2	22R	0603	R3, R4	RES 22 OHM 1/10W 1% 0603	Digikey: RMCF0603FT22R0CT-ND
1	1u	0603	C4	CAP CER 1UF 50V 10% X5R 0603	Digikey: 445-7468-1-ND
1	BLUE	0603	PWR	LED 468NM BLUE CLEAR 0603 SMD	Digikey: 160-1647-1-ND
1	YELLOW	0603	RX	LED YELLOW CLEAR THIN 0603 SMD	Digikey: 160-1448-1-ND
1	150R	0603	R5	RES 150 OHM 1/10W 1% 0603 SMD	Digikey: RHM150CFCT-ND
1	82R	0603	R1	RES 82 OHM 1/10W 1% 0603 SMD	Digikey: RHM82CFCT-ND
---- optional ----					
1				CBL USB A-MNI B CON 3' 28/28 AWG	Digikey: Q362-ND
1				4-pin JST SM Plug + Receptacle Cable Set	EXP-TECH: EXP-R15-235
1				Female DC Power adapter - 2.1mm jack to screw terminal block	EXP-TECH: EXP-R15-080