













# Bill of Materials

Balise IR-Rx - Logic

Source Data From: Rx\_rev\_B.PrjPcb  
 Project: Rx\_rev\_B.PrjPcb  
 Variant: None

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Footprint	Comment	LibRef	Designator	Description	Quantity
TSOP22xx	TSOP22xx	TSOP22xx	501, U502, U503, U504, U505, U506, U507, U508, U509, U510, U511, U512, U513, U514, U515, U516, U517, U518, U519, U520, U521, U522, U523, U524, U525, U526, U527, U528, U529, U530, U531, U532	IR Receiver Modules for Remote Control Systems	32
0603	100n cap 0603 X7R 25V	Cap	C101, C103, C104, C105, C109, C201, C202, C203, C204, C205, C206, C302, C307	Capacitor	13
0805	10u cap 0805 X7R 25V	Cap	C102, C301, C304, C305, C309, C310	Capacitor	6
1608[0603]	100n cap 0603 X7R 25V	Cap	C106, C107	Capacitor	2
1608[0603]	100p cap 0603 X7R 25V	Cap	C108	Capacitor	1
0603	10n cap 0603 X7R 25V	Cap	C207, C208, C209, C210, C211, C212, C213, C214	Capacitor	8
0603	Cap	Cap	C303	Capacitor	1
0603	100p cap 0603 cog 25V	Cap	C306	Capacitor	1
0603	10p cap 0603 cog 25V	Cap	C308	Capacitor	1
0603	4.7u cap 0603 X7R 25V	Cap	C501, C502, C503, C504, C505, C506, C507, C508, C509, C510, C511, C512, C513, C514, C515, C516, C517, C518, C519, C520, C521, C522, C523, C524, C525, C526, C527, C528, C529, C530, C531, C532	Capacitor	32
HDR1X4	Header 4	Header 4	CAN, BUS, I2C	Header, 4-Pin	2
318-07	BZX84CSV6LT1	BZX84CSV6LT1	D101	Zener Voltage Regulator Diode	1
0603	LED0	LED0	D102, D103, D201, D202	Typical INFRARED GaAs LED	4
D-64	10MQ040	10MQ040	D301	Schottky Rectifier	1
HDR1X6	Header 6	Header 6	FPGA_IN_SITU, PIC_IN_SITU	Header, 6-Pin	2
1210	B82422H1223K	Inductor	L301, L302	Inductor	2
HDR1X2	Header 2	Header 2	LED_VISION	Header, 2-Pin	1
Micro8	IRF7604	IRF7604	Q301	HEXFET Power MOSFET	1
0603	Res2	Res2	R101, R102, R201, R202, R203, R204, R205, R206, R207, R208, R301, R302, R303, R304, R305, R306, R307, R308, R309	Resistor	19
0603	Res 10k 100mW	Res2	R103, R104	Resistor	2
1608[0603]	Res 10k 100mW	Res2	R105, R106	Resistor	2
0603	Res 680 100mW	Res2	R107, R108, R209, R210	Resistor	4
TQFP-PT44_N	PIC24HJ128GP 504-E/PT	PIC24HJ128GP 504-E/PT	U101	High Speed General Purpose 16-Bit Flash Microcontroller, 128KB Flash, 8KB RAM, 44-Pin TQFP, Extended Temperature	1
SOIC150-8_N	MCP2551	MCP2551	U102	High Speed Can Transceiver	1
751-02_M	PCA9515	PCA9515	U103	I2C bus repeater	1
XBee_SM	XBee	XBee	U104	OEM RF Modules	1
VQ100_N	XC2C128-6VQ100C	XC2C128-6VQ100C	U201	CoolRunner-II, 1.6V, 128 Macrocell CPLD, 100-Pin VQFP, Commercial Grade	1
SOT23-5	LTC6905	LTC6905	U202	17MHz to 170MHz Resistor Set SOT-23 Oscillator	1
DB020_N	SN74LVC244DB	SN74LVC244DB	U203, U204, U205, U206	Octal Buffer/Driver with 3-State Outputs	4
MSOP8	LM3401	LM3401	U301	Hysteretic PFET Controller for High Power LED Drive	1
MS10	TPS62000	TPS6200x	U302	HIGH-EFFICIENCY STEP-DOWN LOW POWER DC-DC CONVERTER	1
SOT23-5	TLV70018	TLV700xx	U303	200-mA, Low-IQ, Low-Dropout Regulator for Portable Devices	1

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Approved	Notes