

For Each LightBar

Component	Package	Value	Unit Cost	Manuf
1N4148 Logic Diode	USER		\$0.06	Parts Express
2-pin to 9V Adapter	DIL	Battery	\$1.19	Philmore
4-pin header	USER	LEDs		TE Connectivity
6-pin header	USER	ISP	\$0.60	Gravitech
atmega48-10p	DIL	ATMega	\$1.87	Microchip
BoardPadSmall	USER			Rx
	USER			Tx
CAP5mm (Ceramic Capacitor)	USER	1uf	\$0.28	TDK
disccap	USER	.1uf	\$0.30	KEMET
FET NChan - TN0604	USER	BLU	\$0.98	Microchip
	USER	GRN		
	USER	RED		
LED-T1 (Through Hole Red Diffuse)	USER		\$0.37	Broadcom Limited
LM78L05	USER	5v	\$0.67	Texas Instruments
MCP1700 3.3V 250mA	DSC	3.3v	\$0.45	Microchip
MRF24J40MA	DIL		\$9.12	Microchip
R0.25W (Carbon Film Resistor)	R035	390K	\$0.05	Multicomp
R0.125W (Carbon Film Resistor)	R035	10K	\$0.10	RadioShack
R1W (Metal Film Resistors)	USER	15 ohms	\$0.70	Vishay
R1W (Metal Film Resistors)	USER	22 ohms	\$0.36	Vishay
Rotary Dip (Coded Rotary Switch)	DIL	7.4mm	\$2.17	CTS
Switch - mini slide PCB	USER		\$0.58	E-Switch
XTAL/Resonator (Ceramic)	DSC	16MHz	\$0.95	adafruit
9V Li Ion Battery		600 mAh	\$6.99	EBL
1 in. x 2 in. x 8 ft. Furring Strip Board			\$1.05	Home Depo

Total

\$28.84

For Xbee Shield Communicating With All LightBars

Component	Package	Value	Unit Cost	Manuf
Atmega 328P Chip			\$0.00	Microchip
Xbee Shield		2.4Ghz	\$0.00	SparkFun
Xbee Transmitter Chip		250k bps	\$0.00	Digi International

Total

\$0.00

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Manuf Part No	Distrib	Distrib Part No	Ref Name	Qty
1N4148	Parts Express	1N4148	D2	1
48-9000	intertex Electronics	PH-48-9000	J1	1
640456-4	Mouser Electronics	571-6404564	J3	1
6fx1L-254mm	Mouser Electronics	992-6FX1L-254MM	J5	1
ATMEGA48V-10PU	Microchip Direct	ATMEGA48V-10PU	U3	1
			J2	1
			J4	1
FA28C0G2A101JNU00	Mouser Electronics	810-FA28C0G2A10100	C3 C5	2
C320C104M5U5TA	Digi-Key	399-4266-ND	C1 C2 C4 C19	4
TN0604N3-G	Microchip Direct	TN0604N3-G	Q1	1
			Q2	1
			Q3	1
HLMP-1301	Mouser Electronics	630-HLMP-1301	D1	1
LM78L05ACZ/NOPB	Mouser Electronics	926-LM78L05ACZ/NOPB	U2	1
MCP1700-3302E/TO	Mouser Electronics	579-MCP1700-3302E/TO	U4	1
MRF24J40MA-I/RM	Microchip Direct	MRF24J40MA-I/RM	U1	1
MCF 0.25W 390K	Newark	38K0372	R1	1
2710006	RadioShack	2710006	R3 R4 R5 R8	4
CPF115R000FKB14	Mouser Electronics	71-CPF1-15R0FT1	R2 R7	2
MBE04140C2209FC100	Mouser Electronics	594-MBE04140C2209FC1	R6	1
220AMC04R	Mouser Electronics	774-220AMC04R	SW2	1
EG1201A	Mouser Electronics	612-EG1201A	SW1	1
1873	adafruit	1873	XTAL1	1
LN-8161	newegg	9SIABFB5250166		2
100009348	Home Depo	100009348		1

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For Xbee Shield Communicating With All LightBars

Manuf Part No	Distrib	Distrib Part No	Ref Name	Qty
ATMEGA328P-AU	Microchip Direct	ATMEGA328P-AU		1
WRL-12847	Mouser Electronics	474-WRL-12847		1
XB24-API-001	Mouser Electronics	888-XB24-API-001		1

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