Part Name	Description	Unit Quantity	Unit Prototype Cost	Total Prototype Cost	Unit Production Cost	Total Production Cost	Manufacturer	Manufacturer Part Number	# Ordered	Schematic Reference Designators
PIC18F27Q84	Microcontroller	1	$2.000	$2.000	$1.660	$1.660	Microchip	PIC18F27Q84-I/SO	5	PIC18F27Q84
TI OPT4048	RGB Sensor	1	$1.810	$1.810	$1.158	$1.158	Texas Instruments	OPT4060DTSR	5	TI OPT4060
L6981C33DR	3.3V Regulator	1	$2.800	$2.800	$1.220	$1.220	STMicroelectronics	L6981C33DR	5	U1
33uH Inductor	Regulator Inductor	1	$0.350	$0.350	$0.144	$0.144	TDK Corporation	VLS6045EX-330M	10	L
0.1 uF Capacitor	Decoupling Capacitors	4	$0.006	$0.024	$0.003	$0.012	Samsung Electro-Mechanics	CL05B104KP5NNNC	20	C1,C5,Cboot
1 uF Capacitor	Regulator Vcc Capacitor	1	$0.008	$0.008	$0.004	$0.004	Samsung Electro-Mechanics	CL10B105KP8NNNC	10	Cvcc
10 uF Capacitor	Regulator Vin Capacitor	1	$0.050	$0.050	$0.014	$0.014	Samsung Electro-Mechanics	CL10A106MP8NNNC	10	Cin
22 uF Capacitor	Regulator Vout Capacitor	1	$0.059	$0.059	$0.017	$0.017	Samsung Electro-Mechanics	CL10A226MP8NUNE	10	Cout
White LED	Illumination LED	1	$0.200	$0.200	$0.060	$0.060	Samsung Semiconductor, Inc.	SPMWHT541MP5WAR0S5	10	D2
Green LED	Debugging LED	1	$0.125	$0.125	$0.069	$0.069	Lite-On Inc.	LTST-C150KGKT	20	D3
Red LED	Debugging LED	1	$0.125	$0.125	$0.125	$0.125	Lite-On Inc.	LTST-C150KRKT	20	D4
1.5 A Fuse	Regulator Fuse	1	$0.158	$0.158	$0.056	$0.056	Bel Fuse Inc.	0ZCG0075FF2C	5	F1
250mA Fuse	Microcontroller Fuse	1	$0.192	$0.192	$0.069	$0.069	Bel Fuse Inc.	0ZCM0010FF2G	5	F2
10 kOhm Resistor	10 kOhm Resistor	1	$0.025	$0.025	$0.002	$0.002	Stackpole Electronics Inc	RMCF0805FT10K0	50	R1,R2,R7,R8,R9,R10
62 Ohm Resistor	Debug LED Resistors	1	$0.025	$0.025	$0.002	$0.002	Stackpole Electronics Inc	RMCF0805FT62R0	10	R5,R6
5.1 Ohm Resistor	Illumination LED Resistor	1	$0.030	$0.030	$0.007	$0.007	Stackpole Electronics Inc	RMCF0805FT5R10	10	R4
FDV303N	Switch Transistor	3	$0.207	$0.621	$0.046	$0.139	Onsemi	FDV303N	10	U2,U3,U4
Barrel Jack	Wall Adapter Barrel Jack	1	$0.890	$0.890	$0.675	$0.675	Tensility International Corp	54-00165	3	J1
Test Points	Test points	8	$0.262	$2.096	$0.143	$1.144	Keystone Electronics	5006	25	J2,J3
Pushbutton	Debugging pushbutton	1	$0.127	$0.127	$0.089	$0.089	C&K	PTS526SK15SMTR2 LFS	10	TP1,TP2,TP3, TP4,TP5,TP6,TP7,TP8