

# Bill of Materials

Bill of Materials for Project [LP\_LED\_CUBE\_8x8x8.Prc] (No PCB Document Selected)

Source Data From:

LP\_LED\_CUBE\_8x8x8.PrcPcb

Project:

LP\_LED\_CUBE\_8x8x8.PrcPcb

Variant:

None

Creation Date: 19.8.2014 12:52:44

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#Column Name	Comment	#Column Name	Designator	Description	Quantity
	Battery		B11	Multicell Battery	1
	100n		C10, C21, C22, C23, C24, C25	Capacitor	15
	22p		C5, C6, C7, C8	Capacitor	4
	10p		C12, C13	Capacitor	2
	220uF		C14, C17	Capacitor	2
	0.47uF		C16, C19	Capacitor	2
	100n		C26	Capacitor	1
	USB LED		A1	Typical INFRARED GaAs LED	1
	LED1		A2	Typical INFRARED GaAs LED	1
	LED2		A3	Typical INFRARED GaAs LED	1
	LED4		A4	Typical INFRARED GaAs LED	1
	LED5		A5	Typical INFRARED GaAs LED	1
	D Schottky		D5	Schottky Diode	1
	Schottky		D7	Schottky Diode	1
	POWER LED		D6	Typical INFRARED GaAs LED	1
	RS232		J1	Receptacle Assembly, 9 Position, Right	1
	Inductor		L1, L2, L3, L4	Inductor	4
	1.5uH		L5	Magneto-Core Inductor	1
	JTAG Connector		P1	JTAG Connector	1
	ALINK				
	USB B		P2	USB Connector	1
	Header 8X2		P3, P5, P6, P7	Header, 8-Pin, Dual row	4
	Header 8		P4	Header, 8-Pin	1
	DC Connector		P8	DC Power Connector	1
	NPN		Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	NPN Bipolar Transistor	8
	10K		R1, R5, R6, R7, R8, R9, R10, R93, R108	Resistor	9
	NO		R2	Resistor	1
	2k2		R3, R4, R10, R11, R112, R113, R114	Resistor	7
	1k		R11	Resistor	1
	470R		R12, R13, R14, R15, R16, R68, R105, R106	Resistor	8
	50R		R17	Resistor	1
	1k5		R18	Resistor	1
	33R		R19, R20	Resistor	2
	1k		R21, R22, R30, R40, R41, R42, R43, R47	Resistor	8
	100R		R23, R24, R25, R26, R27, R28, R30, R31, R32, R33, R34, R35, R36, R37, R38, R44, R45, R46, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92	Resistor	64
	3R		R94	Resistor	1
	22R		R95	Resistor	1
	49.9k		R96	Resistor	1
	100k		R97	Resistor	1
	75R		R99, R104, R107, R108	Resistor	4
	50R		R105, R101, R102, R103	Resistor	4
	4k7		R115	Resistor	1
	FW Update		S1	Switch	1
	LPC1768FBD10		U1	32-bit ARM Cortex-M3 microcontroller; up to 512 kB flash and 64 kB SRAM with Ethernet, USB 2.0 Host/Device/OTG, CAN	1
	B			Dual 252 +3V3	1
	MAX232		U2	SPC Flash 32MB	1
	AT45DB321D		U3, U5, U6, U7	120 I/O Ports	4
	IC40555		U8	Step-Down Converter 5A 4.5V-18V	1
	TPS56528		U9	Ethernet Connector	1
	RL45 Ethernet		U10	Ethernet PHY	1
	3P85348C		W1, W2	Ethernet Wire	2
	Jumper		X1	Crystal Oscillator	1
	32.768KHz		Y1	Crystal Oscillator	1
	10MHz		Y2	Crystal Oscillator	1
	XTAL 50MHz		Y3	Crystal Oscillator	1

Approved	Notes	188