


Project: LED-Cube				FBH	Berner Fachhochschule
Title: Bill of Materials (BOM)					Departement TI
Author: erl1	Sheet Size: A4	Date: 09.09.2022			Jlcoweg 1
Revision: v1.4	Sheet: 2	Time: 08:54			CH-3400 Burgdorf
File Path:					

Quantity	Designator	Comment	Description	Footprint	Distributor	Order-Code	Price (CHF)		Notice
3	C100, C101, C102	1uF	Capacitor	Capacitor 0603					
1	C103	10uF	Capacitor	Capacitor 0603					
7	C200, C201, C202, C203, C207, C208,	100nF	Capacitor	Capacitor 0402					
1	C204	22uF	Capacitor	Capacitor 0402					
2	C205, C206	TBD	Capacitor	Capacitor 0402					
1	C400	100nF	Capacitor	Capacitor 0805					
1	CN100	DX07S024JJ3R1300	USB-C Connector, 20 V, 1.25 A, -30 to 80 degC, RoHS, Tape and Reel	JAE-DX07S024JJ3_V					
1	DS100	DS-LED-YELLOW	Standard LEDs - SMD 0603 Yellow	LED-0603-YELLOW					-
1	DS200	SML-P11MTT86R	Standard LEDs - SMD 0603 Green	LED-0603-GREEN					-
1	F100	200mA		Resistor 0603					
2	LDR200, LDR201	200k	Resistor	LDR-sunk					
1	P200	RGB-LED	Standard-LEDs - SMD 0404 WL-SFCC SMT LED Full-color Chip	150044M155260					
4	P201, P202, P203, P204	pad	Loetpad SMD	PAD-SMD					
3	Q200, Q201, Q203	IN-S32GTLS		IN-S32GTLS					
1	Q202	BC847BS	Bipolares Transistor-Array, Universal, NPN, 45 V, 250 mW, 100 mA, 200 hFE, SC-88	SOT 23 - 6					
1	R100	1.18k	Resistor	Resistor 0402					
1	R101	15k	Resistor	Resistor 0402					
1	R102	NTCS0805E3103JMT	THERMISTOR NTC 10KOHM 3570K 0805	FP-NTCS0805-MFG					
13	R200, R202, R203, R204, R205, R207, R208, R209, R215, R217, R218, R220, R221	10k	Resistor	Resistor 0402					
1	R201	10k	Resistor	Resistor 0805					
1	R206	330	Resistor	Resistor 0402					
5	R210, R211, R212, R213, R214	0R	Resistor	Resistor 0402					
2	R216, R219	1k	Resistor	Resistor 0402					
3	R400, R401, R402	4.7k	Resistor	Resistor 0603					
2	S100, S201	nanot240as		nanot240as					
1	S200	Mini-Switch		Mini-Switch					
5	SB100, SB101, SB102, SB103, SB104	Solder-Bridge		SolderBridge_open					
1	U100	MIC5203-3	3V LDO, 80mA, 10nA Iq, SOT-143-4, Fixed	SOT-143-4					
1	U101	BQ25180		BGA4x2					
1	U102	BQ25181		WSON10					
1	U200	MCP9701AT-E/LT		SOT65P210X110-5N					

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1	U201	ESP32-S3-MINI-1-N8	Bluetooth, WiFi 802.11b/g/n, Bluetooth v5.0 Transceiver Module 2.4GHz PCB Trace Surface	XCVR_ESP32-S3-MINI-1-N8					
1	U202	MIC94091YC6-TR		SOT65P210X1110-6N					
42	U300, U301, U302, U303, U304, U305, U306, U307, U308, U309, U310, U311, U312, U313, U314, U315, U316, U317, U318, U319, U320, U321, U322, U323, U324, U325, U326, U327, U328, U329, U330, U331, U332	WS2812 2020		WS2812 2020					
1	U400	MC3630	Accelerometer X, Y, Z Axis \pm 2g, 4g, 8g, 12g, 16g 12-VLGA (2x2)	MCUBE_MC3630					