





Bill of Materials

Bill of Materials for Project [IoT_Board_LoRa v1.1.PrjPcb] (No PCB Document S

Source Data From: IoT_Board_LoRa v1.1.PrjPcb
Project: IoT_Board_LoRa v1.1.PrjPcb
Variant: None

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Footprint	Comment	LibRef	Designator	Description	Quantity
0805 FITTED CAP	Not Fitted	FITTED 0805 CAP	C1	Filter Cap(No Value) for Power Module POWER	1
0805 22uF CAP	22uF	22uF 0805 CAP	C2, C3	22uF 0805 CAP AMS1117	2
220/35V/VT ECAP-0810	220uF	220/35V/VT ECAP-0810	C4	Power Module 0810 Electrolyte Cap POWER	1
100/50V/VT ECAP-0810	220uF	100/50V/VT ECAP-0810	C5	Power Module 0810 Electrolyte Cap POWER	1
0805 100nF CAP	100nF	100nF 0805 CAP	C6, C7, C9, C10, C11	100nF CAP POWER	5
1206 10uF CAP	10uF	10uF 1206 CAP	C8	10uF Cap - RS485	1
SS14-DO-214AC	SS14	SS14-DO-214AC	D1, D5, D7, D9	1A 40V Schotky Diode	4
1206 LED SS34	LED	1206 LED SS34	D2, D4, D6, D8, D10, D11	SS34 SCHOTTKY DIODE MODULE POWER	6
Terminal 2 1x6 HEADER	POWER PROGRAMMING HEADER	TERMINAL 2 1x6 Header	J1	2-PIN KLEMENS	1
TERMINAL 3	RELAY1	TERMINAL 3	J2	1X6 HEADER	1
TERMINAL 3	RELAY2	TERMINAL 3	J3	3-PIN KLEMENS	1
TERMINAL 3	RELAY3	TERMINAL 3	J4	3-PIN KLEMENS	1
TERMINAL 3	RELAY4	TERMINAL 3	J5	3-PIN KLEMENS	1
TERMINAL 3	RELAY4	TERMINAL 3	J6	3-PIN KLEMENS	1
TERMINAL 3	RS485	TERMINAL 3	J7	3-PIN KLEMENS	1
TERMINAL 4	HAVA	TERMINAL 4	J8	4-PIN KLEMENS	1
TERMINAL 6	SICAKLIK SENSOR & PINS 1	TERMINAL 6	J9	6-PIN 90 DEGREE	1
1x6 HEADER	BLANK HEADER	1x6 Header	J10	1X6 HEADER	1
1x6 HEADER	PINS 2 HEADER	1x6 Header	J11	1X6 HEADER	1
330uH/470 - INDUCTOR	POWER IND	330uH/470 INDUCTOR	L1	Power Module 0810 Inductor 12.3mmx12.3mm POWER	1
BC847 NPN	RELAY	BC487 TRANSISTOR	Q1, Q2, Q3, Q4	BC847 Transistör Npn Smd Sot-23100mA, 45V NPN	4
0805 1K RES	1k	1K 0805 RES	R1, R2, R3, R4, R6, R7, R8, R9, R13, R21, R22	1K 0805 SMD RES POWER	11
0805 330R RES	330R	330R 0805 RES	R5	330R 0805 SMD RES POWER	1
0805 4.7k RES	4.7k	4.7k 0805 RES	R10, R12	4.7k RES for LoRa Pull-Up	2
0805 10k RES	10k	10k 0805 RES	R11, R15, R16, R17, R18	10k Resistor-RS485, 10k Resistor - RS485	5
0805 20k RES	20k	20k 0805 RES	R14, R20	20k Resistor - RS485	2
0805 120R RES	120R	120R 0805 RES	R19	120R Resistor - RS485	1
SONGLE SRD-03VDC-SL-C	3V3 RELAY	SRD-03VDC-SL-C	RL1, RL2, RL3, RL4	3.3V Relay	4
BUTTON AMS1117	SWITCH	BUTTON	SW1, SW2	Switch For ESP32	2
LM2596S	ESP32 REG	AMS1117-3.3V REG	U1	5V to 3V3 Reg. for ESP32	1
ESP32-WROOM-32D	POWER	LM2596S	U2	5V REGULATOR	1
E22-900T22D	ESP32-WROOM-32D	ESP32-WROOM-32D	U3	SMD MODULE, ESP32-D0WDO6, 32MBIT (FootPrint ölçüleri doğru 3D ye takılma)	1
MAX485	LoRa E22-900T22D	E22-900T22D	U4	Ebyte LoRa 22dBm 5-7km Communication Module	1
	RS485	MAX485	U5	RS485 Chip	1
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Approved		Notes			