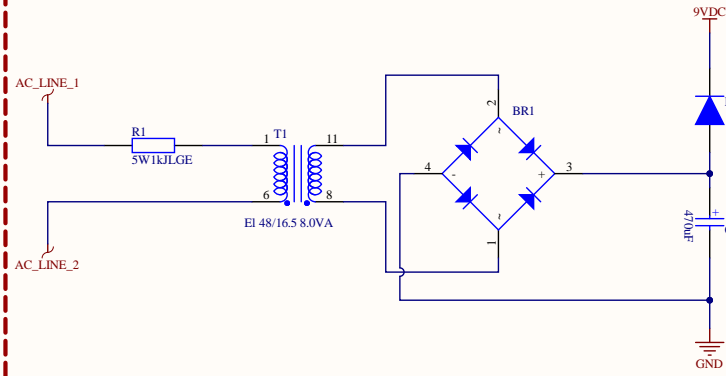
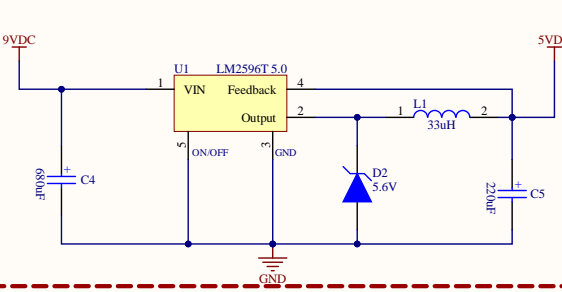


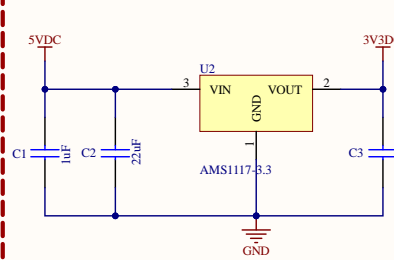
230VAC-6VAC TRANSFORMER & 9V DC CONVERTER



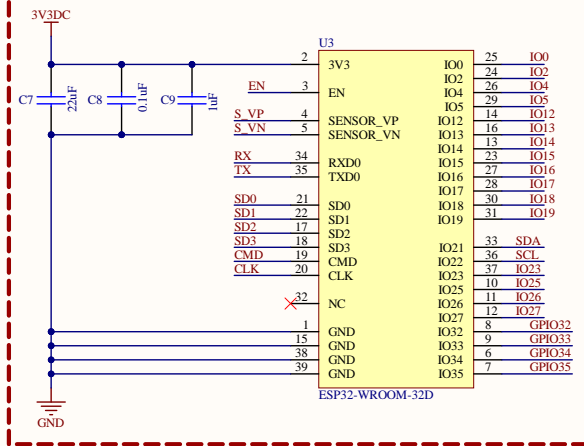
9VDC-5VDC REGULATED CONVERTER



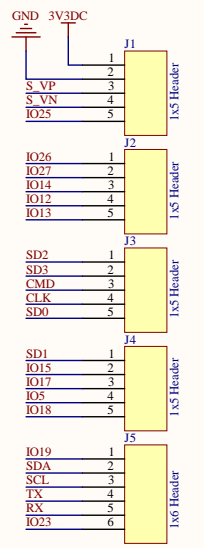
5VDC-3.3VDC REGULATED CONVERTER



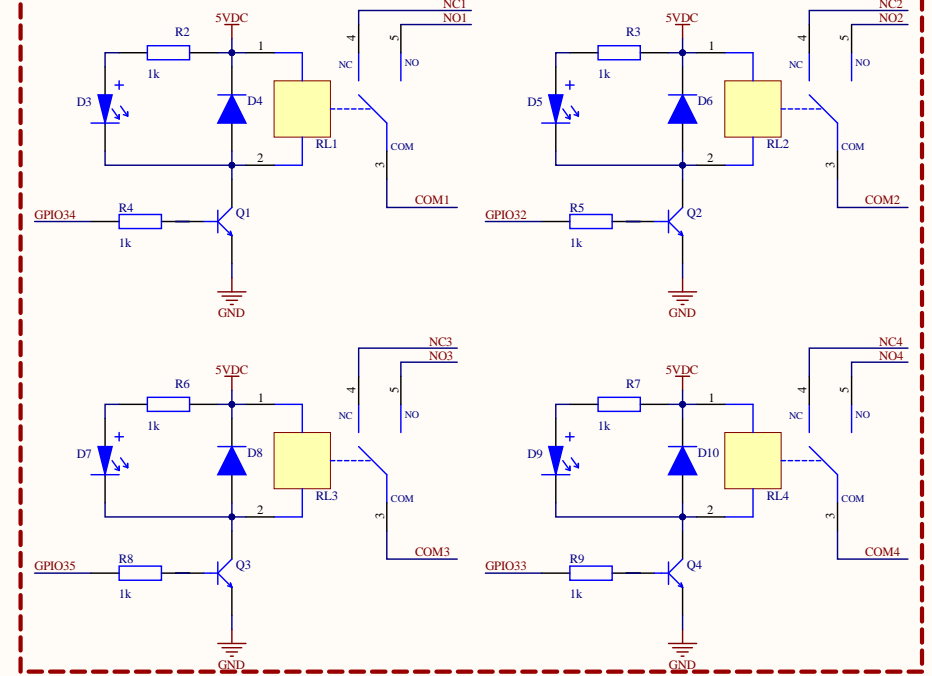
MICROCONTROLLER



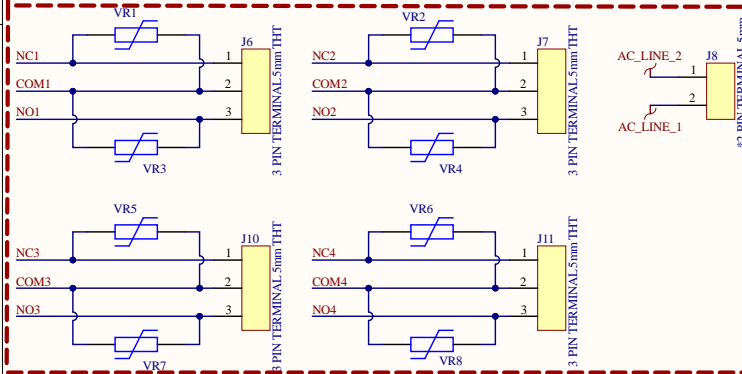
I/O PINS



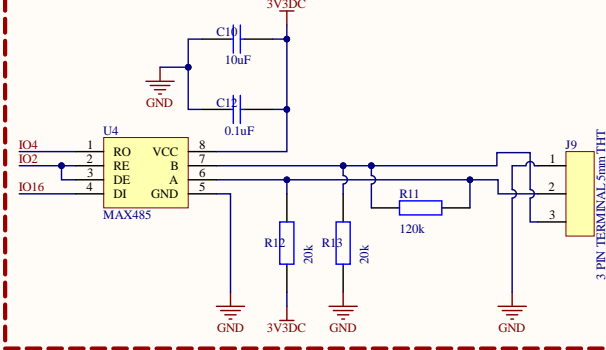
RELAYS



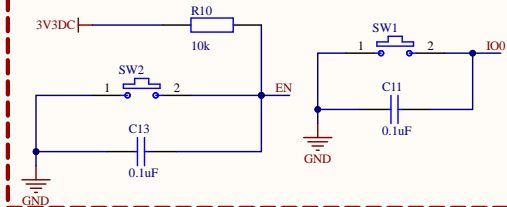
CONNECTORS



RS485 COMMUNICATION



ESP32 RESET & BOOT SWITCH



Açıklama: IoT BOARD v1.0

Sayfa Boyutu: A3

Tasarım:

SELÇUK ELECTRONICS

Mühendis:

İ. Selçuk ÇINAR

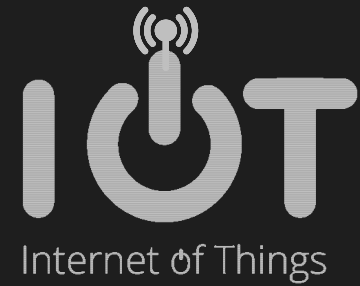
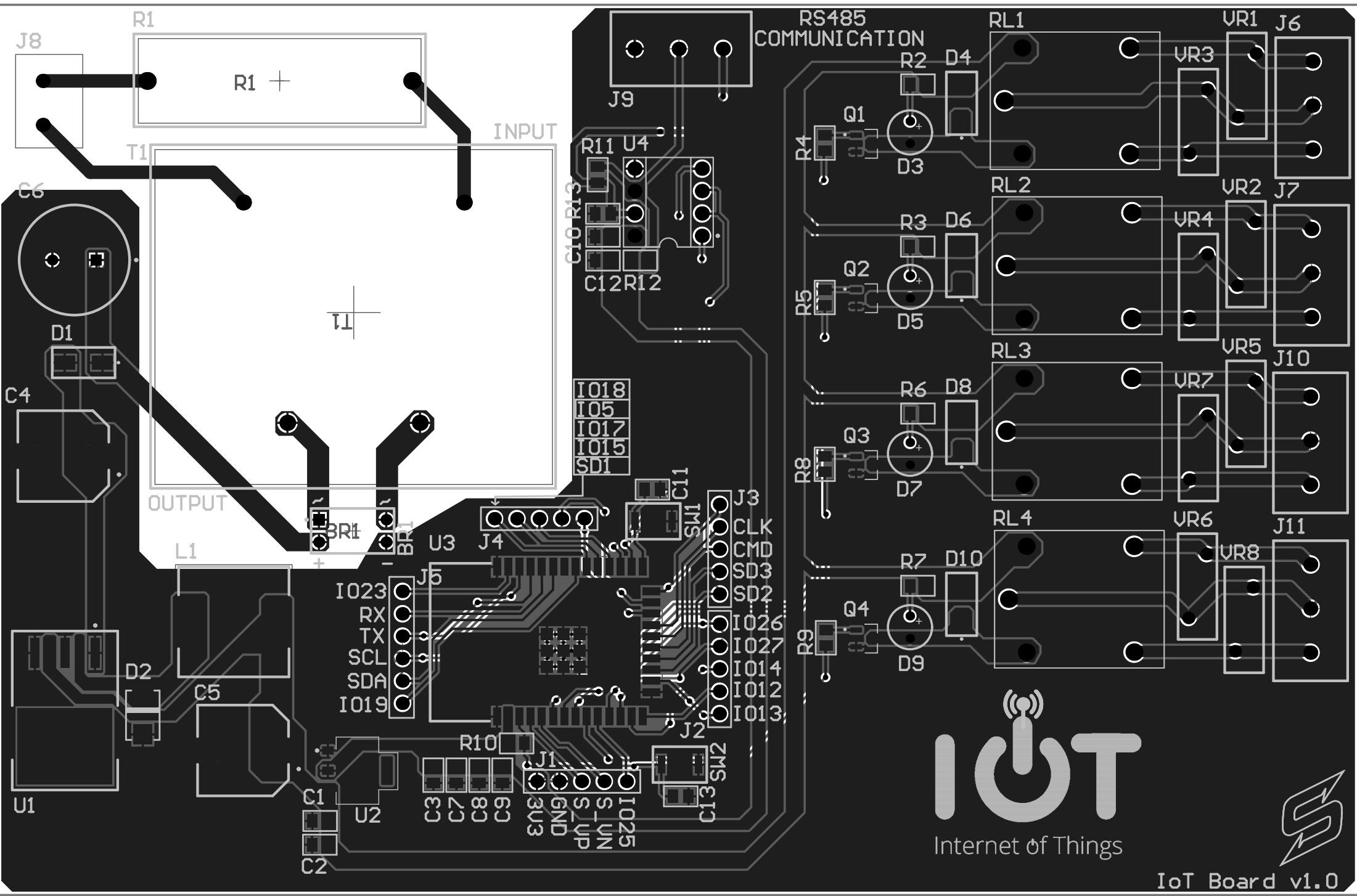
Dosya Adı:

Schematic.SchDoc

Tarih: 1.01.2023

Sayfa No: 1





Bill of Materials

Bill of Materials for Project [IoT_Board.PrjPcb] (No PCB Document Selected)

Source Data From:IoT_Board.PrjPcb

Project:IoT_Board.PrjPcb

Variant:None

Creation Date:1.01.202321:13

Print Date:01-Jan-239:13:38 PM

Footprint	Comment	LibRef	Designator	Description	Quantity
MB10M	MB10M	MB10M	BR1	Bridge Diode AC-DC	1
CAP CER 1uF 0805	CAP CER 22uF 0805	CAP CER 1uF 0805	C1, C9	1uF 16V 10% x5R 805 SMD Capacitor	2
CAP CER 22uF 0805	CAP CER 22uF 0805	CAP CER 22uF 0805	C2, C3, C7	22uF 16V 10% x5R 805 SMD Capacitor	3
CAP ALU 680uF SMD RADIAL	CAP ALU 680uF SMD RADIAL	CAP ALU 680uF SMD RADIAL	C4	CAP ALU 680uF SMD	1
CAP ALU 220uF SMD RADIAL	CAP ALU 220uF SMD RADIAL	CAP ALU 220uF SMD RADIAL	C5	CAP ALU 220uF SMD	1
CAP ALU 470uF THT	NOBBY	CAP ALU 470uF THT	C6	CAP ALU 470uF Normal	1
CAP CER 0.1uF 0805	CAP CER 0.1uF 0805	CAP CER 0.1uF 0805	C8, C11, C12, C13	0.1uF 16V 10% x5R 805 SMD Capacitor	4
CAP CER 10uF 0805	CAP CER 22uF 0805	CAP CER 10uF 0805	C10	10uF 16V 10% x5R 805 SMD Capacitor	1
M7-KT 1N4007 SMD SMB	M7-KT 1N4007 SMD	M7-KT 1N4007 SMD	D1, D4, D6, D8, D10	M7-KT - 1N4007 - SMD Diyot 1A 1000V	5
LED RED THT	LED RED THT	LED RED THT	D2	Diode Zener Single 5.6V 5% 3W 2-Pin SMB T/R	1
1x5 Header	1x5 Header	1x5 Header	D3, D5, D7, D9	Through LED	4
1x6 Header	1x6 Header	1x6 Header	J1, J2, J3, J4	1x5 Header	4
3 PIN TERMINAL 5mm THT	3 PIN TERMINAL 5mm THT	3 PIN TERMINAL 5mm THT	J5	1x6 Header	1
2 PIN TERMINAL 5mm THT	*2 PIN TERMINAL 5mm THT	2 PIN TERMINAL 5mm THT	J6, J7, J9, J10, J11	3 Position Wire to Board Terminal Block Horizontal with Board 0.197" (5.00mm) Through Hole	5
SRR1260-330M	SRR1260-330M	SRR1260-330M	J8	2 Position Wire to Board Terminal Block Horizontal with Board 0.197" (5.00mm) Through Hole	1
BC847 NPN SMD SOT-23 5W1kJLGE	BC847 NPN SMD SOT-23 5W1kJLGE	BC847 NPN SMD SOT-23 5W1kJLGE	L1	33 uH Shielded Drum Core, Wirewound Inductor 3 A 60mOhm Max Nonstandard BC847 Transistör NPN SMD SOT-23100mA, 45V	1
RES 1K OHM 805	RES 1K OHM 805	RES 1K OHM 805	Q1, Q2, Q3, Q4	Resistor 5 Watt Cermet Wirewound Flameproof 1KOhm 5% Axial Lead 1K 805 1/8 SMD Direnç	4
RES 10K OHM 805	RES 10K OHM 805	RES 10K OHM 805	R1	10K 805 1/8 SMD Direnç	1
RES 120R OHM 805	RES 120R OHM 805	RES 120R OHM 805	R2, R3, R4, R5, R6, R7, R8, R9	120Ohm 805 1/8 SMD Direnç	8
RES 20K OHM 805	RES 20K OHM 805	RES 20K OHM 805	R10	20K 805 1/8 SMD Direnç	1
SRD-03VDC-SL-C	SRD-03VDC-SL-C	SRD-03VDC-SL-C	R11	20K 805 1/8 SMD Direnç	1
SKRKAEE010	SKRKAEE010	SKRKAEE010	R12, R13	Relays General Purpose Non Latching 3VDC SPDT 10A (250VAC) Max 5PIN Switch Tactile N.O. SPST Round Button Gull Wing 0.05A 12VDC 1.57N SMD T/R	4
EI 48/16.5 8.0VA LM2596T 5.0	EI 48/16.5 8.0VA LM2596T 5.0	EI 48/16.5 8.0VA LM2596T 5.0	RL1, RL2, RL3, RL4	230VAC-6VAC Transformer 8VA	1
AMS1117-3.3	AMS1117-3.3	AMS1117-3.3	SW1, SW2	SIMPLE SWITCHER® 4.5V to 40V, 3A Low Component Count Step-Down Regulator 5-TO-220	1
ESP32-WROOM-32D	ESP32-WROOM-32D	ESP32-WROOM-32D	T1	Sot223/Pkg 1-Amp 3.3-Volt Low Drop Out Voltage Regulator	1
MAX485	MAX485	MAX485	U1	SMD MODULE, ESP32-D0W DQ6, 32MBIT	1
B72210S0151K101	B72210S0151K101	B72210S0151K101	U2	1/1 Transceiver Half RS422, RS485 8-uMAX-EPI8-uSOP-EP	1
			U3	240 V 2.5 kA Varistor 1 Circuit Through Hole Disc 10mm	8
Approved					72
Notes					