





Size: 100x70mm

Layer: 2 Layer Material: FR4

FR4-TG: 130-140

Thickness: 1.6mm Solder Mask: Green Silkscreen: White SF: HASL with lead

FC: 10Z

PROJECT: WIDORA GATEWAY

PCB Design: EPCB.VN

Comment	Description	Designator	Footprint	LibRef	Quantity
Comment	CC0603KPX7R9BB104	Designator	Footprint	Librei	Quantity
	0603 0.1 uF 50 V ±10% Tolerance X7R SMT	C1, C2, C4, C5, C10,			
	Multilayer Ceramic	C11, C14, C15, C18,			
0.1uF	Capacitor	C19, C23, C24, C25	CN-SMD-0603	CN0603-0.1uF	13
	CC0603KRX7R9BB472 Surface Mount Ceramic				
	Multilayer Capacitor				
4.7nF	0.0047uF 10% X7R 50V 0603 Paper T/R	C3	CN-SMD-0603	CN0603-4.7nF	1
	TPSC476M016R0350				
47uF	CAP TANT 47UF 16V 20% 2312	C6, C7	Cap size C	CN6032-47uF	2
	CC0805MKX5R6BB226				
	0805 22 uF 10 V ±20 % Tolerance X5R SMT				
22uF	Multilayer Ceramic Capacitor	C8, C9, C20, C21, C22	CN-SMD-0805	CN0805-22uF	5
2231	CC0805KKX5R8BB106	00, 07, 020, 021, 022	ON SIVIE COOS	0140005 2241	
	0805 10 uF 25 V ±10 % Tolerance X5R SMT				
	Multilayer Ceramic				
10uF	Capacitor	C12, C13	CN-SMD-0805	CN0805_10uF	2
	CC0603JRNPO9BN100 Surface Mount Ceramic				
	Multilayer Capacitor				
10pF	10pF 5% C0G 50V 0603 Paper T/R	C16, C17	CN-SMD-0603	CN0603-10pF	2
	SS34 DIODE SCHOTTKY				
SS34	40V 3A SMC	D1, D2	DO-214AC	Diode_SS34	2
Diode	Default Diode ESD Suppressor TVS	D3	SOD323	Diode	1
DCI.	ű20KV 2-Pin	D4 DE	DEC 0403	DCI AMBOEZATOTOT	
RCL HR911105A	SLP1006P2T T/R	D4, D5 ETH1	RES-0603 HR911105A	RCLAMP0531TQTCT RJ45 - Tranfomer	2
Fuse 1812	Fuse	F1	fuse_1812	Fuse 1	1
	RS232 - RS485 (Same				
MAX485	sn75176)	IC1	SO8	MAX485	1
Jac DC	Jac DC input CDRH5D28RHPNP-	JDC1	DC0	DCIN_1	1
4.704	4R7NC Fixed Inductors	11 12	INDUCTOR CD75	1 4 7014	_
4.7uH	4.7uH 3.05A LED, 3MM, PCB, BI-	L1, L2	INDUCTOR CD75	L-4.7uH	2
	LEVEL, RED/GRN; LED / Lamp Size: 3mm / T-1:				
1	LED Colour: Green,				
122-000-04-52	Red; Viewing Angle: 30Å*; Forward Cur	LED	*122-000-04-52_122- 000-04-52(Primary)	122-000-04-52	1
122-000-04-32	Header, 20-Pin, Dual	LED	000-04-32(P1111a1y)	122-000-04-32	'
Header 20X2	row	P1	HDR2X20	Header 20X2	1
BC857BLT1G	PNP Bipolar Transistor	Q1	SOT-23B_L	BC857BLT1G	1
LN2302LT1G	N-Channel MOSFET AC0603FR-0710KL Res	Q2	SOT-23B_L	MOSFET-N	1
	Thick Film 0603 10K				
	Ohm 1% 0.1W(1/10W) ±100ppm/C Pad SMD	R1, R2, R13, R14, R18,			
10K	Automotive T/R	R23, R24, R25	RES 0603	RC0603_10K	8
	AC0603JR-0747KL Res Thick Film 0603 47K				
	Ohm 5% 0.1W(1/10W) +/-100ppm/BC Epoxy				
47K	SMD Automotive T/R	R3	RES 0603	RC0603_47K	1
	RC0603JR-07150KL Res Thick Film 1.6 x 0.8 mm				
	150K Ohm 5%				
	0.1W(1/10W) 100ppm/ C Molded SMD Paper				
150K	T/R	R4	RES 0603	RC0603_150K	1
	AC0603JR-0733KL Res Thick Film 0603 33K				
	Ohm 5% 0.1W(1/10W)				
33K	±100ppm/C Pad SMD Automotive T/R	R5	RES 0603	RC0603_33K	1
	311-22GRCT-ND Res Thick Film 0603 22 Ohm		-		
	5% 0.1W(1/10W)				
22R	±100ppm/C Pad SMD T/R	R6, R9	RES 0603	RC0603_22R	2
	AC0603JR-07680RL Res				
	Thick Film 0603 680 Ohm 5% 0.1W(1/10W)				
4000	+/-100ppm/BC Epoxy	D7 D12	RES 0603	BC0403 48CD	_
680R	SMD Automotive T/R AC0603JR-070RL Res	R7, R12	KE3 U0U3	RC0603_680R	2
	Thick Film 0603 0 Ohm Jumper 1/10W Molded				
OR	SMD Paper T/R	R8, R11	RES 0603	RC0603_0R	2
	RC0603JR-07120RL Res Thick Film 0603 120				
	Ohm 5% 0.1W(1/10W)				i l
120R		R10	RES 0603	RC0603 120R	1
120R	Ohm 5% 0.1W(1/10W) ±100ppm/C Pad SMD T/R	R10	RES 0603	RC0603_120R	1
120R	Ohm 5% 0.1W(1/10W) ±100ppm/C Pad SMD T/R YC164-JR-071KL Res Thick Film Array 1KOhm	R10	RES 0603	RC0603_120R	1
120R	Ohm 5% 0.1W(1/10W) ±100ppm/C Pad SMD T/R YC164-JR-071KL Res Thick Film Array 1KOhm 5% 200ppm/C ISOL	R10	RES 0603	RC0603_120R	1
120R	Ohm 5% 0.1W(1/10W) ±100ppm/C Pad SMD T/R YC164-JR-071KL Res Thick Film Array 1KOhm 5% 200ppm/C ISOL Epoxy 8-Pin 1206(4 X 0603) Convex SMD T/R	R10 R15, R16, R17	RES 0603	RC0603_120R	1 3
	Ohm 5% 0.1W(1/10W) ±100ppm/C Pad SMD T/R YC164-JR-071KL Res Thick Film Array 1KOhm 5% 200ppm/C ISOL Epoxy 8-Pin 1206(4 X 0603) Convex SMD T/R YAG5744CT-ND Res				3
	Ohm 5% 0.1W(1/10W) ±100ppm/C Pad SMD 1/R YC164-JR-071KL Res Thick Film Array 1KOhm 5% 200ppm/C ISOL Epoxy 8-Pin 1206(4 X 0603) Convex SMD 1/R YAG5744CT-ND Res Thin Film 0603 49-9 Ohm 1% 1/10W				3
1K	Ohm 5% 0.1W(1/10W) ±100ppm/C Pad SMD T/R YC164-JR-071KL Res Thick Film Array 1KOhm 5% 200ppm/C ISOL Epoxy 8-Pin 1206(4 X 0603) Convex SMD T/R YAG5744CT-ND Res Thin Film 0603 49.9 Ohm 1% 1/10W	R15, R16, R17	RES 0603	RC0603_1K	3
1K 49.9R	Ohm 5% 0.1 W(1/10W) ±100ppm/C Pad SMD 1/R VC164-JR-071KL Res Thick Flim Array 1KOhm 5% 200ppm/C ISOL Epoxy 8-Pin 1206(4 X 0603) Convex SMD 1/R VAGG744CT-ND Res Thin Film 9003 49 Ohm 1% 1/10W ±50ppm/C Molded SMD SMD Paper 1/R	R15, R16, R17 R19, R20, R21, R22	RES 0603	RC0603_1K RC0603_49.9R	3
1K 49.9R SW-SMD	Ohm 5% 0.1W(1/10W) ±100ppm/C Pad SMD T/R YC164-JR-071KL Res Thick Film Array 1KOhm 5% 200ppm/C ISOL Epoxy 8-Pin 1206(4 X 0603) Convex SMD T/R YAG5744CT-ND Res Thin Film 0603 49.9 Ohm 1% 1/10W	R15, R16, R17 R19, R20, R21, R22 RESET1	RES 0603 RES 0603 SW2-D2 - duplicate	RC0603_1K RC0603_49.9R SW-SMD	3 4 1 1
1K 49.9R SW-SMD RJ45	Ohm 5% 0.1 W(1/10W) ±100ppm/C Pad SMD 1/R VC164-JR-071KL Res Thick Flim Array 1KOhm 5% 200ppm/C ISOL Epoxy 8-Pin 1206(4 X 0603) Convex SMD 1/R VAGG744CT-ND Res Thin Film 9003 49 Ohm 1% 1/10W ±50ppm/C Molded SMD SMD Paper 1/R	R15, R16, R17 R19, R20, R21, R22 RESET1 RS1	RES 0603 RES 0603 SW2-D2 - duplicate RJ45_8PIN_VOSAT_V2	RC0603_1K RC0603_49.9R SW-SMD RJ45	3 3 1 1
1K 49.9R SW-SMD	Ohm 5% 0.1W(1/10W) 1100ppm/C Pad SMD 17R 1100ppm/C Pad SMD 17R VC164_JR-071KL Res Thick Film Array 1KOhm 5% 200ppm/C ISOL Eponys-Pin 12064 X 0603) Conwex SMD 1/R VAG5744CT-ND Res 150ppm/C Molded SMD SMD Paper 17R Switch	R15, R16, R17 R19, R20, R21, R22 RESET1	RES 0603 RES 0603 SW2-D2 - duplicate	RC0603_1K RC0603_49.9R SW-SMD	4 1 1 1
1K 49.9R SW-SMD RJ45	Ohm 5% 0.1W(1/10W) 100ppm/C Pad SMD 17R 100ppm/C Pad SMD 17R 100ppm/C Pad SMD 17R 100ppm/C Pad SMD 17R 100ppm/C 15OL Epoxy 8-Pin 12064 X 0603) Conwax SMD 17R 140c6 XMD 18m 17m 16m 16m 16m 16m 16m 16m 16m 16m 16m 16	R15, R16, R17 R19, R20, R21, R22 RESET1 RS1	RES 0603 RES 0603 SW2-D2 - duplicate RJ45_8PIN_VOSAT_V2	RC0603_1K RC0603_49.9R SW-SMD RJ45	3 4 1 1
1K 49.9R SW-SMO RJ45 MP2365ND	Ohm 5% 0.1W(1/10W) 1100ppm/C Pad SMD 17/R 1100ppm/C Pad SMD 17/R VC164-JR-071KL Res Thick Film Array 1KOhm 5% 200ppm/C ISOL Epony 8-Pin 12064 X 0603) Conwex SMD 17/R VAG65744CT-VAD Res Thin Film 0603 49 9 Ohm 1% 1710W 150ppm/C Molded SMD SMD Paper 17/R Switch High Efficiency 5.5V, 2A continuous, 3A peak, 10Hz 5ynchronous	R15, R16, R17 R19, R20, R21, R22 RESET1 R51	RES 0603 RES 0603 SW2-02 - duplicate RJ45_BPN_VOSAT_V2 MP2265ND	RC0603_1K RC0603_49.9R SW-SMD RJ45 Switching MP2365ND	3 4 1 1
1K 49.9R SW-SMD RJ45 MP2365ND	Ohm 5% 0.1W(1/10W) 1100ppm/C Pad SMD 17R 1100ppm/C Pad SMD 17R VC164JR-071KL Res Thick Film Array 1KOhm 5% 200ppm/C 1SOL Epoxy 8-Pin 12064 X 0603) Conwex SMD 17R VAGS744CTND Res Thin Film 0603 49 9 0hm 1% 1.10W ±50ppm/C Molded SMD SMD Paper T/R Switch MP2365ND High Efficiency 5.5V, 2A continuous, 3A peak, 1MHz Synchronous Slep Down Regulator Sl	R15, R16, R17 R19, R20, R21, R22 RESET1 RS1 U1	RES 0603 RES 0603 SW2-02 - duplicate RJ45_BPIN_VOSAT_V2 MP2365ND SOT23-5	RC0603_1K RC0603_49 9R SW-SMD RJ45 Switching MP2365ND	4 1 1 1 1
1K 49.9R SW-SMO RJ45 MP2365ND	Ohm 5% 0.1W(1/10W) 1100ppm/C Pad SMD 17/R 1100ppm/C Pad SMD 17/R VC164-JR-071KL Res Thick Film Array 1KOhm 5% 200ppm/C ISOL Epony 8-Pin 12064 X 0603) Conwex SMD 17/R VAG65744CT-VAD Res Thin Film 0603 49 9 Ohm 1% 1710W 150ppm/C Molded SMD SMD Paper 17/R Switch High Efficiency 5.5V, 2A continuous, 3A peak, 10Hz 5ynchronous	R15, R16, R17 R19, R20, R21, R22 RESET1 R51	RES 0603 RES 0603 SW2-02 - duplicate RJ45_BPN_VOSAT_V2 MP2265ND	RC0603_1K RC0603_49.9R SW-SMD RJ45 Switching MP2365ND	4 4 1 1 1 1