











ES	P32 S3 Gatewa								
#		esignate	Footprint		Manufacturer Part Numbe		Quantity Description	Assembly Type	Link
	0.1uF 10uF		C_0402 C_0805	C307331 C2932476	CL05B104KB54PNC CL21A106KBYQNNE	Samsung Electro-Mechanics Samsung Electro-Mechanics	20 50V 100nF X7R ±10% 3 50V 10uF X5R ±10% 0		
$\overline{}$	0.1uF	C5	C-0603	C14663	CC0603KRX7R9BB104	YAGEO	1 50V 100nF X7R ±10%	(SMT Assembly	
	47uF		C-1210	C77101		Murata Electronics	2 16V 47uF X5R ±10% 1		
	100pF	C8	C 0402	C1546	0402CG101J500NT	FH(Guangdong Fenghua Adva	1 100pF 50V C0G ±5% 0		
	10uF	C10, C1	C 0603	C70225	0603X106K160NT	FH(Guangdong Fenghua Adva			
	22pF	C13, C1		C1555	0402CG220J500NT	FH (Guangdong Fenghua Adva		,	
8	2pF	C15	C_0402	C285089	0402CG2R0B500NT	FH (Guangdong Fenghua Adva	1 50V 2pF 0402 Multilaye	SMT Assembly	
9	2.6pF	C16	C_0402	C2190109	GCM1555C1H2R6CA16D	Murata Electronics	1 50V 2.6pF 0402 Multila	SMT Assembly	
10	6pF	C17, C1	C_0402	C1575	0402CG6R0C500NT	FH (Guangdong Fenghua Adva	2 50V 6pF X7R ±10% 04	SMT Assembly	
11	1uF		C_0402	C52923	CL05A105KA5NQNC	Samsung Electro-Mechanics	5 25V 1uF X5R ±10% 04	SMT Assembly	
_	10uF		C_0402	C15525	CL05A106MQ5NUNC	Samsung Electro-Mechanics	3 6.3V 10uF X5R ±20% (
	10nF	C29, C3		C15195	CL05B103KB5NNNC	Samsung Electro-Mechanics	5 50V 10nF X7R ±10% 0		
$\overline{}$	18pF		C_0402	C1549	0402CG180J500NT	FH (Guangdong Fenghua Adva			
_	4.7uF	C32	C_0402	C23733	CL05A475MP5NRNC	Samsung Electro-Mechanics	1 10V 4.7uF X5R ±20% (
	6.8nF		C_0402 CAP-TH XH414HG	C1542 C9900013866	0402B682K500NT XH414HG-IV01E	FH (Guangdong Fenghua Adva			
$\overline{}$	XH414HG-IV01E_C9		_			N/A FH (Guangdong Fenghua Adva	1 Cap Supercap 80000u 1 50V 22nF X7R ±10% 0		
	22nF 5.6nF	C45 C53	C_0402 C_0402	C1532 C1540	0402B223K500NT 0402B562K500NT	FH (Guangdong Fenghua Adva			
	DSK34		_	C41029	DSK34	MDD (Microdiode Electronics	3 DSK34 40V 550mV@3		
-	SMAJ12CA	D1, D2, D4, D5,	SMA,DO-214AC - C/	C32700	SMAJ12CA	RUILON(Shenzhen Ruilongyu			
	TPUSBLC6-2SC6	D4, D5,	SOT-23-6_L2.9-W1.	C558442	TPUSBLC6-2SC6	TECH PUBLIC	1 ESD ROHS SOT23-6		
	BAT54C	D9	SOT-23-6_L2.9-W1.	C14308	BAT54CLT1G	ON Semicon	1 SCHOTTKY BARRIER		
	2LED_3MM	D10	2LED_3MM	N/A	SSF-LXH240IGD	Lumex	1 LED DUAL RED/GREI		
	JK-SMD075L	F1, F2	F_1812	C920242	JK-SMD075L	Jinrui Electronic Materials Co.	2 JK-SMD075L 33V 750i		
-	BSMD0603L-150	F3	F0603	C914094	BSMD0603L-150	BHFUSE	1 6V 1.5A 50A 1W -40°C		
_	DC+02I	J1	DC0	C718033	DC+02I	JINJIA	1 Jac DC input 5.5x2.1M		
	ATN SMA	J2	ANTEN_SMA	N/A	N/A	N/A	1 Connector; SMB Straig		
	HR911105A	J3	RJ45-TH_HR911105		HR911105A	HANRUN(Zhongshan HanRun	1 RJ45 RJReceptacle 1		
30	DB2ERC-3.81-3P-GI	J4	CONN-TH_6P-P3.81	C395690	DB2ERC-3.81-3P-GN	DIBO	1 3.81mm 1x3P Green E		
31	DB2ERC-3.81-6P	J5	CONN-TH_6P-P3.81	C395709	DB2ERC-3.81-6P-GN	DIBO	1 250V 10A 6 Bend -40°(Hand Soldering	
32	TYPE-C 16PIN 2MD(J6	USB-C-SMD_TYPE-	C2765186	TYPE-C16PIN	SHOU HAN	1 5A 1 Surface Mount 16	SMT Assembly	
33	2.54-2*15P	J7	HDR-TH_30P-P2.54	C5337168	2.54-2*15P	BOOMELE(博穆精密)	1 Straight,P=2.54mm Fe	SMT Assembly	
34	10uH	L1	IND-SMD_L4.4-W4.2	C408339	MW SA0402S-100MT	Sunlord	1 POWER INDUCTORS	SMT Assembly	
	2.7nH	L2, L3	L_0402	C108255	CLH1005T-2N7S-S	Chilisin Elec	2 400mA 2.7nH 150mΩ		
36	BLM18AG121SN1D	L4	L_0603	C76892	MW SA0402S-100MT	Murata Electronics	1 120Ω @ 100MHz 500n		
	4.7uH	L5	IND-SMD_L4.4-W4.2	C408337	MWSA0402S-4R7MT	Sunlord	1 4.7uH IND 4.2x4.4x2.0		
	MLT-8530	LS1	Buzzer SMD	C94599	MLT-8530	Jiangsu Huaneng Elec	1 Externally Driven 80dB		
$\overline{}$	MMBT3904	Q1	SOT-23-3	C20526	MMBT3904	Changjiang Electronics Tech (1 MMBT3904 TRANSIST		
	MMBT3906LT1G	Q9	SOT-23-3	C53444	MMBT3906LT1G	ON Semicon	1 MMBT3906 TRANSIST	,	
	100k		R_0402	C25741	0402WGF1003TCE	UNI-ROYAL(Uniroyal Elec)	2 100kΩ ±1% 0402 Chip		
	5.76K	R2	R_0402	C25910	0402WGF5761TCE	Uniroyal Elec	1 5.76kΩ 1/16W Thick F		
$\overline{}$	95.3K	R3	R_0402	C26990	0402WGF9532TCE	Uniroyal Elec	1 95.3kΩ 1/16W Thick F	_	
-	0R	R4	R_0402	C17168	0402WGF0000TCE	UNI-ROYAL (Uniroyal Elec)	1 62.5mW Thick Film Re		
	5.1K 49.9R		R_0402 R_0402	C25905 C25120	0402WGF5101TCE 0402WGF499JTCE	UNI-ROYAL(Uniroyal Elec) UNI-ROYAL(Uniroyal Elec)	2 62.5mW Thick Film Re 5 62.5mW Thick Film Re		
$\overline{}$	120R		R_0603	C23120 C22787	0603WAF1200T5E	UNI-ROYAL(Uniroyal Elec)	3 100mW Thick Film Re		
	4.7K	R9, R13		C25900	0402WGF4701TCE	UNI-ROYAL(Uniroyal Elec)	3 62.5mW Thick Film Re		
_	1K	R10, R1	R 0402	C11702	0402WGF1001TCE	UNI-ROYAL(Uniroyal Elec)	3 62.5mW Thick Film Re		
	22R		R 0402	C25092	0402WGF220JTCE	UNI-ROYAL(Uniroyal Elec)	2 22R 22Ω ±1% 0402 C		
	10k	_	R_0402	C25744	0402WGF1002TCE	UNI-ROYAL(Uniroyal Elec)	14 10kΩ 1% 0402 Chip Re		
$\overline{}$	1M	R20	R 0402	C26083	0402WGF1004TCE	UNI-ROYAL(Uniroyal Elec)	1 62.5mW Thick Film Re		
	12.4K	R21, R5		C11692	0402WGF1242TCE	UNI-ROYAL(Uniroyal Elec)	5 62.5mW Thick Film Re		
_	19.1K	R23	R_0402	C52036	0402WGF1912TCE	Uniroyal Elec	1 19.1kΩ 0402 1/16W Th		
55	150k	R24	R_0402	C413108	ERJ2RKF1503X	PANASONIC	1 150kΩ ±1% 0402 Chip		
56	33k	R25	R_0402	C25779	0402WGF3302TCE	UNI-ROYAL(Uniroyal Elec)	1 33kΩ ±5% 1/16W Thic	SMT Assembly	
57	1k	R26, R2	R_0603	C21190	0603WAF1001T5E	UNI-ROYAL(Uniroyal Elec)	6 100mW Thick Film Re	sSMT Assembly	
	47K		R_0603	C25819	0603WAF4702T5E	UNI-ROYAL(Uniroyal Elec)	4 100mW Thick Film Re		
-	33R	R36, R3		C25105	0402WGF330JTCE	UNI-ROYAL(Uniroyal Elec)	4 62.5mW Thick Film Re	,	
_	10R	R42	R_0402	C25077	0402WGF100JTCE	UNI-ROYAL(Uniroyal Elec)	1 62.5mW Thick Film Re	,	
61	510R	R43, R4		C25123	0402WGF5100TCE	UNI-ROYAL(Uniroyal Elec)	2 62.5mW Thick Film Re		
-	0R		R_0603	C21189	0603WAF0000T5E	UNI-ROYAL(Uniroyal Elec)	1 100mW Thick Film Re		
		R47, R4		C22859	0603WAF100JT5E	UNI-ROYAL(Uniroyal Elec)	2 100mW Thick Film Re		
	3.9k		R_0402	C321486	RC-02W3901FT	FH (Guangdong Fenghua Adva	1 3.9kΩ 0402 1% Chip F		
	YTS-A020-3	S2		C2910682	YTS-A020-3	YIYUAN(怡远)	1 50mA Surface Mount S		
	TPS54335ADRCR	U1	VSON-10_L3.0-W3.0		TPS54335ADRCR	Texas Instruments	1 TPS54335A 28V 3A S0		
\rightarrow	SY8089A	U2		C479074	SY8089A1AAC	Silergy Corp	1 High Efficiency 5.5V, 2		
-	ESP32-S3	U3	QFN-56_L7.0-W7.0-		ESP32-S3	ESPRESSIF(乐鑫)	1 ESP32-S3 QFN-56-EF		
	BTS5210GXUMA1 W25Q128JVSIQTR	U4 U5	PG-DSO-14_L8.8-W SOIC-8_L5.3-W5.3-F		BTS5210GXUMA1 W25Q128JVSIQ	Infineon WINBOND	1 BTS5210GXUMA1 5.5		
	W25Q128JVSIQ1R W5500	U5 U6	LQFP-48 L7.0-W7.0		W25Q128JVSIQ W5500	WIZNET	1 W25Q128JVSIQTR 12 1 W5500 SPI LQFP-48(7		
	UUGUVV	U6 U7	SOIC-8	C32843 C6855	SP485EEN-L/TR	MaxLinear	1 transceiver 4.75V~5.25		
71			0010-0			Nexperia	2 74LVC1G125GW,125		
71 72	SP485EEN-L/TR		SOT-353 1 2 4 M/4 3	C12510				UNIT POSEITION	
71 72 73	SP485EEN-L/TR 74LVC1G125GW,12	U8, U9	SOT-353_L2.1-W1.3		74LVC1G125GW,125 BM8563EMA				
71 72 73 74	SP485EEN-L/TR 74LVC1G125GW,129 BM8563EMA	U8, U9 U10	MSOP-8_L3.0-W3.0	C269878	BM8563EMA	GATEMODE(捷茂微)	1 MSOP-8 Real-time CI	SMT Assembly	
71 72 73 74 75	SP485EEN-L/TR 74LVC1G125GW,129 BM8563EMA TLC555CDR	U8, U9 U10 U11	MSOP-8_L3.0-W3.0- SOIC-8	C269878 C6986	BM8563EMA TLC555CDR	GATEMODE(捷茂微) Texas Instruments	1 MSOP-8 Real-time CI 1 SOIC-8 Timers / Clock	SMT Assembly SMT Assembly	
71 72 73 74 75 76	SP485EEN-L/TR 74LVC1G125GW,129 BM8563EMA	U8, U9 U10	MSOP-8_L3.0-W3.0	C269878 C6986 C9010	BM8563EMA	GATEMODE(捷茂微)	1 MSOP-8 Real-time CI	SMT Assembly SMT Assembly SMT Assembly	