

## BOM

description	specifications	part number
IC	Codec, NAU88L21YG, : QFN32L-5X5MM	U36
TVS	TVS , 12V, IEC 61000-4-5 (Surge) 100A (8/20 $\mu$ s), : DFN1.6X1.0-2L	ESD33
TVS	TVS , 3.3V, : DFN0.6*0.3-2 (0201)	ESD28, ESD29, D29, ESD30, ESD31, D31, ESD32, D32, D33, ESD34, D34, ESD35, ESD36, D40, D47, D51, D53, D54, D68, D72, D73
TVS	TVS , 5.0V, : DFN0.6*0.3-2 (0201)	D41, ESD42, D42, ESD43, D43, ESD44, D44, ESD45, D45, D46, D48, D49, D50, D52
TVS	TVS , 5.0V, : DFN0.6*0.3-2 (0201)	ESD37, ESD38, ESD39, ESD40, ESD41
TVS IC	TVS , 3.3V, : DFN2.5*1.0-10	D74
IC	DCDC, SM80591, : DFN1.1X0.9-6	U39
IC	电池电源管理芯片 SY6981QDC, : QFN3*3-16	U3
IC	SY7011A, : SOT23-6L	U46
IC	SY8263AIC, : TSOT23-8	U16
IC	SGM2040-1.8YUDH4G/TRG, 1.8V, 2%, : UTDFN-1X1-4AL	U10
IC	'SGM4076YTDB8G/TR, : DFN3X3 8	U38
IC	DI02399BSC6, G=100, : SC70-6	U42
IC	SGM7222YWQ10/TR, : TQFN-10L	U2
IC	SGM2036-2.8YUDH4G/TR, 2.8V, 2.5%, : UTDFN-1X1-4AL	U40
IC	SGM2040-2.8YUDH4G/TR, 2.8V, 1.2%, : UTDFN-1X1-4AL	U43

IC		Q2
Resistance	20K, 0201, 1%, 1/20W	R922
Resistance	44.2K, 0201, 1%, 1/20W	R939
Resistance	2K, 0201, 5%, 1/20W	R932, R933, R959
Resistance	0R, 0805, 5%, 1/8W	R18
Resistance	7mR 1W, LRT1206	R954
IC	华邦SPI Winbond-25q128fvs6, 2.7V-3.3V, : WSON8-1R27-8X6MM	U44
inductance	SPH201610H2R2MT (2.2uH, $\pm 20\%$ , : 2016)	L14, L15, L31, L42, L44
inductance	SPH201610H3R3MT (3.3uH, $\pm 20\%$ , : 2016)	L10
inductance	SPH252012H2R2MT (2.2uH, 20%, 2520)	L8
inductance	SPH201610H1R5MT (1.5uH, 20%, : 2016)	L30
inductance	MCM1012B900F06BP ( inductance), 90R, : 1210	T1
Cap	0.1uF, 0201, 6.3V, 10%, X5R	C1, C2, C5, C6, C7, C8, C17, C18, C19, C21, C26, C28, C30, C32, C34, C36, C43, C44, C45, C46, C47, C48, C52, C53, C54, C55, C56, C57, C58, C61, C62, C64, C69, C71, C74, C77, C78, C79, C80, C83, C87, C90, C92, C126, C128, C140, C145, C149, C151, C153, C173, C175, C198, C320, C590, C594, C609, C613, C645, C648, C660
Cap	0.1uF, 0201, 16V, 10%, X5R	C11, C20, C168, C171, C196, C200, C628, C630, C632, C633
Cap	10uF, 0402, 6.3V, 20%, X5R	C4, C9, C37, C38, C39, C40, C42, C49, C51, C59, C65, C66, C67, C68, C70, C84, C86, C89, C91, C124, C635

Cap	2.2uF, 0402, 6.3V, 20%	C10, C85, C88
Cap	1uF, 0201, 6.3V, 20%, X5R	C12, C22, C33, C72, C129, C136, C152, C322, C591, C605, C647, C652
Cap	20pF, 0201, 25V, 5%, COG	C13, C14, C15, C16, C197, C644, C659
Cap	0.47uF, 0201, 6.3V, 10%, X5R	C23
Cap	4.7nF, 0201, 10V, 10%, X7R	C24, C29, C587
Cap	4.7uF, 0402, 6.3V, 20%, X5R	C25, C27, C75, C76, C81, C82, C201, C319, C593, C595, C623, C627, C629, C631, C639, C646, C653
Cap	1uF, 0201, 16V, 20%, X5R	C174, C176, C190
Cap	22uF, 0805, 16V, 20%	C167, C170, C172
Cap	10uF, 0603, 16V, 20%, X5R	C192, C133
Cap	100pF, 0201, 25V, 5%, COG	C106, C166, C189, C620, C641, C41, C99, C31, C662
Cap	1uF, 0402, 16V, 10%, X5R	C107
Cap	22uF, 0603, 6.3V, 20%, X5R	C139, C143, C144, C148, C199, C607, C608, C642, C643, C657, C658
Cap	10pF, 0201, 25V, 5%, COG	C142, C146, C150, C612
Cap	10uF, 0603, 6.3V, 20%, X5R	C147, C606, C614
Cap	330nF, 0201, 25V, 10%, X5R	C178
Cap	2.2uF, 0201, 6.3V, 20%	C624, C625, C626, C636, C651, C661
	肖特基 RB521S-30, : SOD-523	D2, D3, D4
FPC	A4S系列, 0.4-16P, 0.8MM高度, 插座, AXE516127D松下连接器	J27
TF	7SDCN-BA-0108 (TF卡座)	J12

	USB624FC-C2014206 (TYPE-C 3.1 24P 母座, 沉板式, 外壳四脚插板, 短体)	J24
inductance	CMI160808U4R7KT (4.7uH, 0603)	L2, L3, L6
Resistance	0R, 0201, 5%, 1/20W	R26, R98, R126, R277, R278, R279, R280, R281, R413, R417, R926, R945, R946, R947, R949, R950, R951, R952, R953, R955, R956
IC	JCET MMBT3904T, : SOT523	Q10, Q14
IC	EMB12P03V, : EDFN3x3	Q11
MOS管	N沟道-20V-0.5A (VGS=12V)-850mΩ (TYP)- SOT523-环保-JCET (CJ1012)	Q1, Q9, Q12
IC	CJX3134K, : SOT563	Q17
Resistance	1K, 0201, 1%, 1/20W	R1, R2, R3, R6, R7, R10, R16
Resistance	1.8K, 0201, 1%, 1/20W	R957, R958, R960
Resistance	240R, 0201, 1%, 1/20W	R8, R9
Resistance	10K, 0201, 5%, 1/20W	R11, R53, R56, R58, R59, R60, R61, R62, R78, R79, R80, R81, R82, R90, R91, R93, R100, R131, R135, R141, R143, R153, R154, R161, R169, R285, R912, R923, R22, R29
Resistance	12K, 0201, 1%, 1/20W	R12, R28, R411
Resistance	1M, 0201, 5%, 1/20W	R13, R15, R935
Resistance	2.2M, 0201, 1%, 1/20W	R20
Resistance	300K, 0201, 1%, 1/20W	R19, R25, R962
Resistance	680K, 0201, 1%, 1/20W	R21, R167
Resistance	953K, 0201, 1%, 1/20W	R961
Resistance	4.7K, 0201, 5%, 1/20W	R39, R65, R155, R156, R397, R421, R422
Resistance	51K, 0201, 5%, 1/20W	R40
Resistance	0R, 0402, 5%, 1/16W	L25, R48, R64, R400, R927

Resistance	33R, 0201, 5%, 1/20W	R17, R34, R51, R119, R120, R282, R772, R941, R942, R943, R944
Resistance	100K, 0201, 1%, 1/20W	R67, R402, R771, R921
Resistance	24.9K, 0201, 1%, 1/20W	R89, R164
Resistance	3K, 0201, 5%, 1/20W	R92
Resistance	100K, 0201, 5%, 1/20W	R94, R160, R162, R176, R408, R929, R940
Resistance	10R, 0201, 5%, 1/20W	R96
Resistance	6.98K, 0201, 5%, 1/20W	R101
Resistance	20K, 0201, 5%, 1/20W	R102, R412
Resistance	1K, 0201, 5%, 1/20W	R911, R924, R925, R163
Resistance	200K, 0201, 1%, 1/20W	R938
磁珠	GZ0603D121TF (120R, 0201)	R121, L41
Resistance	5.1K, 0201, 5%, 1/20W	R173, R174, R934
Resistance	51K, 0201, 1%, 1/20W	R175
Resistance	2.2R, 0201, 5%, 1/20W	R182
Resistance	120K, 0201, 5%, 1/20W	R398, R405, R409
Resistance	15K, 0201, 5%, 1/20W	R399
Resistance	88.7K, 0201, 1%, 1/20W	R403
Resistance	150K, 0201, 1%, 1/20W	R410
Resistance	330K, 0201, 1%, 1/20W	R415
Resistance	0R, 0603, 5%, 1/10W	R874
Resistance	511K, 0201, 1%, 1/20W	R24
Resistance	787K, 0201, 1%, 1/20W	R27
Resistance	360K, 0201, 1%, 1/20W	R130

Resistance	200K, 0201, 5%, 1/20W	R142
IC	ME6211C28R5G-N (2.8V) , : SOT-353	UP8
IC	V39M, : BGA293-0.65	U1
IC	I2225RV1U, : TQFN28-0.4	U11
IC	Ij003, : SOT-23-6	U15
ant	pogopin TZZA02-50-X-1)	TP116