

Subscriber Line Interface Module BOM								
Item #	Reference Designator	Qty	Manufacturer	Mfg Part #	Description / Value	Package/Footprint	Type	Instructions / Notes
1	C12 C16	2	KYOCERA AVX	SR215C102KARTR1	CAP CER 1000PF 50V X7R RADIAL	5mm Pitch	THRU-HOLE	
2	C7 C13	2	TDK	FA28X7R1H682KNU06	CAP CER 6800PF 50V X7R RADIAL	5mm Pitch	THRU-HOLE	
3	C1 C2 C3 C4 C5 C6 C8 C10 C11 C14 C15 C18 C24 C25 C26	15	Vishay	K104K15X7RF5TH5	0.1 $\mu$ F $\pm$ 10% 50V Ceramic Capacitor X7R Radial	5mm Pitch	THRU-HOLE	
4	C9 C19 C20 C21 C22 C23	6	Panasonic	ECA-1CM100I	10 $\mu$ F 16 V Aluminum Electrolytic Capacitor Radial	2.5mm Pitch	THRU-HOLE	
5	C17	1	Panasonic	ECW-F2105HA	Film Capacitor 1.0uF 250VDC 3% MPP L/S=15mm	Radial	THRU-HOLE	
6	D2 D3 D5 D6 D8	5	Diotec Semiconductor	1N4004	Diode 400 V 1A Through Hole DO-41/DO-204AC	DO-41	THRU-HOLE	
7	D7	1	onsemi	1N4148	Diode 100 V 200mA Through Hole DO-35	DO-35	THRU-HOLE	
8	D9	1	Diodes Inc	1N5817-T	DIODE SCHOTTKY 20V 1A DO41	DO-41	THRU-HOLE	
9	D1	1	Everlight Electronics Co Ltd	EALP05RDMRGA0	5mm RGB LED Common Anode	5mm, T-1 3/4	THRU-HOLE	
10	D4	1	Littelfuse Inc.	P6KE82CA	TVS DO15 70.1V 600W BIDIR	DO-15	THRU-HOLE	
11	J5	1	Sullins	PREC002SAAN-RC	Connector Header Through Hole 2 position 0.100"	2POS	THRU-HOLE	
12	J1	0						Do Not Install
13	J4	0						Do Not Install
14	J2	0						Do Not Install
15	J3 J9	0						Do Not Install
16	J8	1	Sullins	PREC003SAAN-RC	Connector Header Through Hole 3 position 0.100"	3POS	THRU-HOLE	
17	J10	1	CUI Devices	PJ-202A	Power Barrel Jack 2.10mm ID, 5.50mm OD Through Hole, Right	3POS	THRU-HOLE	
18	J6 J7	2	Ckmtw(Shenzhen Cankemeng)	R-RJ11R06P-A800	RJ11 RJ Receptacle Modular Connector	6POS	THRU-HOLE	
19	J11	1	Phoenix Contact	5442206	TERM BLK 2P SIDE ENT 5.08MM PCB	2POS	THRU-HOLE	
20	K1	1	Ningbo Keke New Era Appliance	HK19F-DC5V-SHG(Y)	Relay DPDT 5VDC Coil	8PIN	THRU-HOLE	
21	Q2	1	Onsemi	2N3904TA	BJT NPN Transistor General Purpose	TO-92 135AR Leadformed	THRU-HOLE	
22	Q1	1	Onsemi	2N7000	MOSFET TO92 N 60V 0.2A 50OHM 150C	TO-92	THRU-HOLE	
23	R14 R21	2	YAGEO	CFR-25JR-52-100R	RES 100 OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	
24	R1 R3 R4	3	YAGEO	CFR-25JR-52-300R	RES 300 OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	
25	R27	1	YAGEO	CFR-25JR-52-1K	RES 1K OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	
26	R16 R22	2	YAGEO	CFR-25JR-52-6K8	RES 6.8K OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	
27	R15 R19 R25	3	YAGEO	CFR-25JR-52-7K5	RES 7.5K OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	
28	R2 R5 R6 R7 R12 R13 R17 R23 R26	9	YAGEO	CFR-25JR-52-10K	RES 10K OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	
29	R20	1	YAGEO	CFR-25JR-52-15K	RES 15K OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	
30	R18 R24	2	YAGEO	CFR-25JR-52-18K	RES 18K OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	
31	R8 R10 R28	3	YAGEO	CFR-25JR-52-100K	RES 100K OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	
32	R9	1	YAGEO	CFR-25JR-52-300K	RES 300K OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	
33	R11	1	YAGEO	CFR-25JR-52-1M	RES 1Meg OHM 5% 1/4W AXIAL	Axial	THRU-HOLE	
34	S1	1	TE Connectivity	1825910-6	50mA Straight SPST 160gf 24V Plugin Tactile Switch	4PIN	THRU-HOLE	
35	T1	1	Sunrom	5132	Audio Isolation Transformer 600:600 Ohm 1:1 EI14	4 lead	THRU-HOLE	Info: <a href="https://www.sunrom.com/m/5132">https://www.sunrom.com/m/5132</a>
36	U3	1	Texas Instruments	CD74HC4050E	IC BUFFER NON-INVERT 6V 16DIP	DIP16	THRU-HOLE	
37	U1	2	Sullins	PPTC151LFBN-RC	CONN HDR 15POS 0.1 TIN PCB	15POS	THRU-HOLE	Two 15 pin female headers are installed so the user can plug in ESP32_DevKit_V1_DOIT module. For best alignment plug an ESP32 module into the headers and then solder to PCB.
38	U7	1	Renesas	ICL7660SIPAZ	IC REG CHARGE PUMP INV 45MA 8DIP	DIP8	THRU-HOLE	
39	U4	1	Shenzhen Ring&Tone	KS0835F	RING Subscriber Line Interface Circuit Module	SIP Special	THRU-HOLE	Purchased from AliExpress. Manufacturer: <a href="http://www.r-tone.com/contact-us">http://www.r-tone.com/contact-us</a>
40	U6	1	ST Micro	LD1117AV33	IC REG LINEAR 3.3V 1A TO220AB	TO-220	THRU-HOLE	

41	U5	1	Texas Instruments	LM358P	IC OPAMP GP 2 CIRCUIT 8DIP	DIP-8	THRU-HOLE	
42	U2	1	Microchip	MT8870DE1	IC TELECOM INTERFACE 18DIP	DIP18	THRU-HOLE	
43	Y1	1	Abracon	ABL-3.579545MHZ-B2	3.579545 MHz ±20ppm Crystal 18pF 180 Ohms HC-49/US	HC-49/US	THRU-HOLE	
44	Z1 Z2 Z3 Z4	4	Vishay	BZX55B2V4-TAP	DIODE ZENER 2.4V 500MW DO35	DO-35	THRU-HOLE	