



Parallax RFID Card Reader USB (#28340) Rev. A Bill-of-Materials
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Notes:

- 1) BOM does not include PCB, assembly, or packaging
- 2) Unused designators: R4, R5, C10, C12, C13, D4, D5

Item	Quantity	Reference	Manufacturer	Manuf. Part #	Distributor	Distrib. Part #	Description
1	7	C1,C2,C3,C9,C17,C18,C19	Kemet	C0603C104K4RACTU	Digi-Key	399-1096-1-ND	0.1uF bypass capacitor, 16V, X7R, 0603
2	1	C4	Panasonic	ECH-U1H821GX5	Digi-Key	PCF1295CT-ND	820pF capacitor, 2%, 50V, PPS Film, 0805
3	1	C5	Panasonic	ECH-U1H222GX5	Digi-Key	PCF1300CT-ND	2200pF capacitor, 2%, 50V, PPS Film, 0805
4	1	C6	Panasonic	ECH-U1H221GX5	Digi-Key	PCF1288CT-ND	220pF capacitor, 2%, 50V, PPS Film, 0805
5	1	C7	Panasonic	ECJ-1VC1H390J	Digi-Key	PCC390ACVCT-ND	39pF capacitor, 50V, NP0, 0603
6	1	C8	Panasonic	ECJ-2VC1H152J	Digi-Key	PCC2156CT-ND	1500pF capacitor, 50V, NP0, 0805
7	1	C11	Kemet	C0603C103K5RACTU	Digi-Key	399-1091-1-ND	0.01uF bypass capacitor, 50V, X7R, 0603
8	1	C14	Kemet	C0603C102K5RACTU	Digi-Key	399-1082-1-ND	0.001uF capacitor, 50V, X7R, 0603
9	1	C15	Kemet	T491A106M016AS	Digi-Key	399-3098-1-ND	10uF capacitor, 20%, 16V, tantalum, size A
10	1	C16	Kemet	C0603C223K5RACTU	Digi-Key	399-1280-1-ND	0.022uF capacitor, 50V, X7R, 0603
11	1	D1	Kingbright	KPB-3025ESGC	Rep 7 Electronics	N/A	Red/Green Bi-Color SMT LED
12	2	D2,D3	ON Semiconductor	BAS21HT1	Digi-Key	BAS21HT1OSCT-ND	Switching Diode, 250V, 200mA, SOD-323
13	1	Q1	Fairchild Semiconductor	MMBT3904	Digi-Key	MMBT3904FSCT-ND	NPN transistor, 200mA, 40V, SOT-23
14	1	R1	Panasonic	ERJ-3GEYJ472V	Digi-Key	P4.7KGCT-ND	4.7k, 5%, 1/10W, 0603
15	1	R2	Panasonic	ERJ-3GEYJ471V	Digi-Key	P470GCT-ND	470 ohm, 5%, 1/10W, 0603
16	1	R3	Panasonic	ERJ-3GEYJ271V	Digi-Key	P270GCT-ND	270 ohm, 5%, 1/10W, 0603
17	1	R6	Panasonic	ERJ-6GEYJ8R2V	Digi-Key	P8.2ACT-ND	8.2 ohm, 5%, 1/8W, 0805
18	2	R7,R8	Panasonic	ERJ-3GEYJ102V	Digi-Key	P1.0KGCT-ND	1.0k ohm, 5%, 1/10W, 0603
19	1	R9	Panasonic	ERJ-3GEYJ101V	Digi-Key	P100GCT-ND	100 ohm, 5%, 1/10W, 0603
20	1	U1	Microchip	PIC16F627A-I/SS	Digi-Key	PIC16F627A-I/SS-ND	Microcontroller, SSOP20, 16F or 16LF (628A OK)
21	1	U2	EM Microelectronic	EM4095HMSO16A	Omni Pro	N/A	125kHz RFID Basestation Front End, SOIC16
22	1	U3	FTDI	FT232RL	Parallax	604-00043	USB to serial TTL-level UART, SSOP28
23	1	JP1	SMP Technology	N/A	Parallax	452-10006	Mini USB, 5 pin, R/A female, SMT