



BOM -- EVB-USB2412

QFN28, Evaluation Board

Revision A1

Revised: 20091030

Item	Qty	Qty Pop'd	Reference Designator(s)	Description	Manufacturer	Manufacturer Part Number	Notes
1	8	8	C2,C10,C11,C14,C16,C17,C22,C26	Capacitor, 0.1uF, 6.3V, 10%, X5R, 0402	Panasonic	ECJ-0EB1A104K	
2	3	3	C24,C27,C29	Capacitor, 1.0uF, 16VDC, 10%, X5R, 0603	Panasonic	ECJ-1VB1C105K	
3	2	2	C15,C20	Capacitor, 1000pF, 50V, 10%, X7R, 0402	SMEC	MCCE102K0NRTF	
4	2	2	C8,C9	Capacitor, 18pF, 50V, 5%, NPO, 0402	Murata	GRM1555C1H180JZ01	
5	2	2	C18,C21	Capacitor, 4.7uF, 6.3VDC, 20%, X5R, 0603	Panasonic	ECJ-1VB0J475M	
6	2	2	C6,C7	Capacitor, Low ESR, 100uF, 6.3VDC, 20%, Al. Elec., SMT, 5mm x 5.8mm	United Chemi-Con	EMZA6R3ADA101ME61G	
7	1	1	Y1	Crystal, 24.000MHz, 50ppm, 18pF, HC-49SMT	Citizen America	HCM49-24.000MABJ-UT	
8	1	1	FB5	Ferrite Bead, 220 Ohm, 2A, 0.05DCR, 0603	TDK	MPZ1608S221A	
9	5	5	R13,R14,R16,R17,R21	Resistor, 100K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ104V	
10	1	1	R9	Resistor, 12.0K, 1%, 1/16W, 0603	Panasonic	ERJ-3EKF1202V	Critical Device
11	1	1	R23	Resistor, 10K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ103V	
12	2	2	R12,R25	Resistor, 1K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ102V	
13	3	3	R1,R2,R11	Resistor, 330, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ331V	
14	1	1	R15	Resistor, ZERO, 0.1W, 0603	Panasonic	ERJ-3GEY0R00V	
15	1	1	U5	IC, PQ1L333M2SP, Voltage Regulator, 3.3V, 300mA, LDO, 900mW, SOT-89-5	Sharp	PQ1L333M2SP	
16	1	1	U4	IC, USB2412, 2 Port USB 2.0 Hub, QFN28	SMSC	USB2412-HZx	Supplied by SMSC
17	1	1	J4	Connector, Power Jack, 2.0mm, 12V, 4A, Right Angle, TH	Cui Stack	PJ-002AH	
18	2	2	LED1,LED2	LED, Green, 3mm, Diffused, Right Angle	Lumex	SSF-LXH103GD	Optional
19	1	1	LED5	LED, Bright Green, 0603	Rohm	SML-412MWT86	
20	2	2	J1,J2	Receptacle, USB, Style A, Right Angle, Through-hole	AMP	292303-1	
21	1	1	J3	Receptacle, USB, Style B, Right Angle, Through-hole	AMP	292304-1	
22	4	4		Rubber feet	Richco	RBS-35	Optional
23	1	1	PCB Fab	PCB, EVB-USB2412, ("Copper"), Rev. A1		PCB-EVB-USB2412_A1	

24	3	0	C4,C5,C25	Capacitor, 0.1uF, 6.3V, 10%, X5R, 0402	Panasonic	ECJ-0EB1A104K	Do Not Populate
25	1	0	C23	Capacitor, 0.1uF, 6.3V, 10%, X5R, 0402	Panasonic	ECJ-0EB1A104K	Do Not Populate
26	3	0	C1,C3,C28	Capacitor, 1000pF, 50V, 10%, X7R, 0402	SMEC	MCCE102K0NRTF	Do Not Populate
27	1	0	C19	Capacitor, 18pF, 50V, 5%, NPO, 0402	Murata	GRM1555C1H180JZ01	Do Not Populate
28	2	0	C12,C13	Capacitor, Do Not Populate, 0402			Do Not Populate
29	3	0	BR1,BR2,BR3	Diode, Bridge, Switching, 50V, 140mA,KCAC, SOT-143	Infineon Tech	BGX50A	Do Not Populate
30	1	0	D1	Diode, Schottky, B340LA-13, 40V, 3.0A, KA, SMA	Diodes Inc.	B340LA-13	Do Not Populate
31	6	0	FB1,FB2,FB3,FB4,FB6,FB7	Ferrite Bead, 220 Ohm, 2A, 0.05DCR, 0603	TDK	MPZ1608S221A	Do Not Populate
32	1	0	FB8	Ferrite Bead, 220 Ohm, 2A, 0.05DCR, 0603	TDK	MPZ1608S221A	Do Not Populate
33	3	0	L1,L2,L3	Inductor, Common Mode Choke, DLP11SN900SL2, 0504	Murata	DLP11SN900SL2	Do Not Populate
34	1	0	LED4	LED, Red, 0603	Stanley Electric	BR1111C-TR	Do Not Populate
35	4	0	R18,R19,R20,R24	Resistor, 10K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ103V	Do Not Populate
36	1	0	R22	Resistor, 1K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ102V	Do Not Populate
37	2	0	R7,R8	Resistor, 1K, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ102V	Do Not Populate
38	1	0	R10	Resistor, 1Meg, 5%, 1/16W, 0603	Panasonic	ERJ-3GEYJ105V	Do Not Populate
39	4	0	R3,R4,R5,R6	Resistor, ZERO, 0.1W, 0603	Panasonic	ERJ-3GEY0R00V	Do Not Populate
40	1	0	U7	IC, LT1129IQ-3.3, Voltage Regulator, +3.3V, 700mA, DD 5-Lead	Linear Technology	LT1129IQ-3.3	Do Not Populate
41	1	0	U2	IC, MIC2026-1BM, Power Distribution Switch, SO-8	Micrel	MIC2026-1BM	Do Not Populate
42	2	0	U1,U3	IC, MIC2505-1YM, Power Distribution Switch, SO-8	Micrel	MIC2505-1YM	Do Not Populate
43	1	0	LED3	LED, Orange, 5mm, TH, Right Angle	Dialight	550-2505	Do Not Populate
44	1	0	SKT1	Socket, IC, 8 Pin DIP, Leaf Contacts, Through Hole	Assmann	A08-LC-TT-R	Do Not Populate
45	1	0	U6	IC, AT24HC04B, 2 Wire Serial EPROM, 4Kb, 1.8V, DIP8	Atmel	24C04	Do Not Populate