

BOM: EVB-USB2524QFN - USB2524, 56 pin QFN package, User Evaluation Platform



EVB-USB2524QFN (CrenshawQFN)

Revision B1 **Revised: Wednesday, August 08, 2006**

Item	Qty	Ref. Des.	Description	Mfg	Mfg PN	Notes
1	15	C1,C2,C10,C11,C14,C15,C16,C20,C21,C22,C27,C34,C35,C42,C43	Capacitor, 0.1uF, 25V, 10%, X7R, 0603	Panasonic	ECJ-1VB1E104K	
2	6	C5,C8,C9,C17,C18,C19	Capacitor, 4.7uF, 6.3VDC, 20%, X5R, 0603	Panasonic	ECJ-1VB0J475M	
3	7	C6,C7,C36,C37,C38,C39,C41	Capacitor, 1.0uF, 16VDC, 10%, X5R, 0603	Panasonic	ECJ-1VB1C105K	
4	2	C12,C13	Capacitor, 33pF, 50V, 5%, NPO, 0603	Yageo America	0603CG330J9B200	
5	4	C23,C24,C25,C26	Capacitor, 47uF, 16VDC, 20%, Aluminum, SMT, 5mm x 6mm	Panasonic	EEV-FK1C470UR	
6	1	D1	Diode, MMBD914LT, Fast Switching, 100VDC, 200mA, SOT-23	On Semiconductors	MMBD914LT1	
7	0	FB1,FB2,FB4,FB5,FB6,FB7	Ferrite Bead, 2000mA, DCR=0.05, 0805	Murata	BLM21PG221SN1D	EMI protection - not populated
8	0	FB3	Ferrite Bead, 120 Ohm, 0.5A, 0.1DCR, 0603	Panasonic	EXC-3BP121H	Do not populate
9	0	J1,J5	Header, 1 x 2, 0.1 Inch, Vertical	Samtec	TSW-102-14-L-S	Do not populate
10	1	J2	Connector, Power Jack, 2.0mm, 12V, 4A, Right Angle, SMT	Cui Stack	PJ-002AH-SMT-1	
11	2	J3,J4	Receptacle, USB, Style B, Right Angle, Through-hole	AMP	787780-1	
12	1	J6	Header, 2 x 5, 0.1 Inch, Vertical	Molex	10-89-1101	
13	4	J18,J19,J20,J21	Receptacle, USB, Style A, Right Angle, Through-hole	AMP	787616-1	
14	4	LED1,LED2,LED3,LED4	LED, Green, 0603	Stanley Electric	BG1111C-TR	
15	8	LED5,LED6,LED7,LED8,LED9,LED10,LED11,LED12	LED, Dual, Red/Green, SMT-0605	Lite-On	LTST-C195KGJRK	
16	0	L1,L2,L3,L4,L5,L6	Inductor, Common Mode Choke, 0805	Murata	DLW21SN900SQ2L	Do not populate
17	0	R1B,R3B,R5B,R7B	Resistor, 330, 5%, 1/16W, 0603	Yageo America	9C06031A3300JLHFT	Do not populate
18	13	R1A,R3A,R5A,R7A,R11,R16,R17,R18,R19,R21, R22,R23,R24	Resistor, 330, 5%, 1/16W, 0603	Yageo America	9C06031A3300JLHFT	
19	15	R1,R4,R5,R7,R8,R10,R12,R13,R25,R27,R29,R31,R46,R51,R52	Resistor, 100K, 5%, 1/16W, 0603	Yageo America	9C06031A1003JLHFT	
20	0	R2B,R4B,R6B,R8B,R20,R38,R41	Resistor, ZERO, 0.1W, 0603	Yageo America	9C06031A0R00JLHFT	Do not populate
21	4	R2A,R4A,R6A,R8A	Resistor, ZERO, 0.1W, 0603	Yageo America	9C06031A0R00JLHFT	
22	0	R2,R3,R6,R9,R26,R28,R53,R54	Resistor, 10K, 5%, 1/16W, 0603	Yageo America	9C06031A1002JLHFT	Do not populate
23	3	R9,R53,R54	Resistor, 10K, 5%, 1/16W, 0603	Yageo America	9C06031A1002JLHFT	
24	1	R14	Resistor, 1Meg, 5%, 1/16W, 0603	Yageo America	9C06031A1004JLHFT	
25	1	R15	Resistor, 12.0K, 1%, 1/16W, 0603	Yageo America	9C06031A1202FKHFT	Critical value required
26	2	R30,R37	Resistor, 220K, 5%, 1/16W, 0603	Yageo America	9C06031A2203JLHFT	
27	1	R32	Resistor, 330K, 5%, 1/16W, 0603	Yageo America	9C06031A3303JLHFT	
28	1	SKT1	Socket, IC, 8 Pin DIP, Leaf Contacts, Through Hole	Amp	2-641260-1	Place at U2
29	4	SW1,SW2,SW3,SW4	Switch, SPDT, Slide, EG1218	E-Switch	EG1218	
30	4	TP5,TP6,TP7,TP8	Header, 1 x 1, 0.1 Inch, Vertical	Amp/Tyco	103185-1	Not needed for production
31	1	U2	IC, AT24C02A, 2 Wire Serial EPROM, 2Kb, 2.7V, DIP-8	Atmel	AT24C02AN-10PI-2.7	Do not populate / Use if custom VID/PID/DID configuration is required
32	1	U3	IC, USB2524, 2-to-4 Port USB 2.0 Switching Hub, QFN64	SMSC	USB2524QFN56	
33	2	U4,U5	IC, MIC2026-1BM, Power Distribution Switch, SO-8	Micrel	MIC2026-1BM	Alternate switches are acceptable
34	1	U14	IC, PQ1L333M2SP, Voltage Regulator, 3.3V, 300mA, Low Dropout, 900mW, SOT-89-5	Sharp	PQ1L333M2SP	Alternate LDO is acceptable
35	1	U20	IC, 74AHC1G14, Inverter, Shottky, DCK	TI	SN74AHC1G14DCKR	
36	1	Y1	Crystal, 24.000MHz, 50ppm, 18pF, HC-49SMT	Citizen America	HCM49-24.000MABJT	