

EVB-USB2228-CRB - USB2228 User Evaluation Platform

EVB-USB2228-CRB Rev. B.1

USB2228 Customer Reference Board, 2 Layer Revised: Tuesday, December 7, 2004



Bill Of Materials December 7, 2004 18:09:21

Item	Quantity	Part Reference	Description	Manufacturer	Part Number	Notes
1	2	C1,C2	Capacitor, 1.0uF, 16VDC, 10%, X5R, 0805	Panasonic	ECJ-GVB1C105K	
2	3	C3,C9,C12	Capacitor, 10uF, 6.3VDC, 20%, X5R, 0805	Panasonic	ECJ-2FB0J106M	Critical component
3	16	C4,C7,C8,C10,C11,C13,C16,C17,C18,C19,C20,C21,C23,C27,C28,C29	Capacitor, 0.1uF, 16V, 10%, X7R, 0603	Panasonic	ECJ-1VB1C104K	
4	2	C5,C6	Capacitor, 33pF, 50V, 5%, NPO, 0603	Yageo America	0603CG330J9B200	
5	3	C14,C15,C26	Capacitor, 4.7uF, 6.3VDC, 20%, X5R, 0805	Panasonic	ECJ-2FB0J475M	Critical component
6	0	C22	Do Not Populate, Radial-SMT, 6.3mm dia.			Do not populate
7	0	C24,C25	Capacitor, 10pF, 50V, 5%, NPO, 0603	Yageo America	0603CG100J9B200	Do not populate
8	0	C41	Capacitor, Do Not Populate, 0603			Do not populate
9	2	FB1,FB2	Ferrite Bead, 2000mA, DCR=0.05, 0805	Murata	BLM21PG221SN1D	
10	1	FB3	Ferrite Bead, 120 Ohm, 0.5A, 0.1DCR, 0603	Panasonic	EXC-3BP121H	
11	0	tp1,GP1,tp2,GP2,tp3,GP3,tp4,GP4,tp5,GP5,tp6,GP6,tp7,tp8,tp9,tp10,tp11,tp12,tp13	Test Point solder location			Do not populate
12	1	J1	Receptacle, USB, Style B, Right Angle, Through-hole	AMP	787780-1	
13	1	J2	Connector, Power Jack, 2.0mm, 12V, 4A, Right Angle, TH	Cui Stack	PJ-002AH	
14	1	J3	Header, 1 x 3, 0.1 Inch, Vertical	Samtec	TSW-103-14-L-S	
15	1	J4	Header, 2 x 3, 0.1 Inch, Vertical	AMP	146256-3	Do not populate
16	1	J5	Connector Housing Assembly, SmartMedia + XD, SMT	Proconn	TIN044-00-1000	
17	1	J8	Connector Housing Assembly, Secure Digital, SMT	Proconn	SDRC009-30-1001	
18	1	J9	Header Assembly, Compact Flash, Type I/II, Normal Height, Bottom Mount, SMT	Proconn	CFH050-27-1140	
19	1	J47	Connector Housing Assembly, Memory Stick, SMT	DDK	MCK-10ANA-5N	
20	1	LED1	LED, Green, 3mm, Short Lense, Diffused	Lumex	SSL-LX3044GD	
21	1	Q1	Transistor, FDN304P, P-Channel MOS-FET, 20V, 2.4A, SOT-23	Fairchild	FDN304P	Substitutes OK with similar Vgs/Ron specification
22	6	R2,R10,R20,R22,R23,R24	Resistor, 100K, 5%, 1/16W, 0603	Yageo America	9C06031A1003JLHFT	
23	1	R3	Resistor, 1Meg, 5%, 1/16W, 0603	Yageo America	9C06031A1004JLHFT	
24	2	R4,R16	Resistor, 2.2K, 5%, 1/16W, 0603	KOA Speer	RK73B1JLTD222J	
25	1	R5	Resistor, 12.0K, 1%, 1/16W, 0603	Yageo America	9C06031A1202FKHFT	Critical component
26	2	R6,R7	Resistor, 33, 5%, 1/16W, 0603	Yageo America	9C06031A33R0JLHFT	
27	1	R8	Resistor, 330, 5%, 1/16W, 0603	Yageo America	9C06031A3300JLHFT	
28	4	R9,R11,R12,R21	Resistor, 10K, 5%, 1/16W, 0603	Yageo America	9C06031A1002JLHFT	
29	0	R27,R28,R41,R42,R43	Resistor, Do Not Populate, 0603			Do not populate
30	1	U1	IC, USB2228, USB 2.0 Bus Powered Flash Media Controller, TQFP-128	SMSC	USB2228-NE	Supplied by SMSC
31	1	U2	IC, LT1129CST-3.3, Voltage Regulator, +3.3V, 700mA, SOT-223	Linear Technology	LT1129CST-3.3	Substitutes OK, low IDDQ for bus powered operation
32	1	Y1	Crystal, 24.000MHz, 50ppm, 18pF, HC-49SMT	Citizen America	HCM49-24.000MABJT	
			Group 1 -- EEPROM Option			
32	1	U40	IC, AT93C66, 3 Wire Serial EPROM, 4Kb, 2.7V,SO-8	Atmel	AT93C66-10SI-2.7	
33	1	C40	Capacitor, 0.1uF, 16V, 10%, X7R, 0603	Panasonic	ECJ-1VB1C104K	
34	1	R40	Resistor, 330, 5%, 1/16W, 0603	Yageo America	9C06031A3300JLHFT	
			Group 2 -- Flash Option			
35	0	U30	IC, SST39VF010, Flash Memory, 1Mb, 128K x 8, 70ns, PLCC-32	Silicon Storage Techno	SST39VF010-70-4C-NH	Optional for external firmware
36	1	SKT30	Socket, IC, 32 Pin PLCC, Leaf Contacts, SMT	Assmann	A-CCS32-Z-SM	Not needed for production
37	1	J30	Header, 1 x 2, 0.1 Inch, Vertical	Samtec	TSW-102-14-L-S	
38	1	C30	Capacitor, 0.1uF, 16V, 10%, X7R, 0603	Panasonic	ECJ-1VB1C104K	
39	1	R30	Resistor, 10K, 5%, 1/16W, 0603	Yageo America	9C06031A1002JLHFT	
			Group 3 -- Silicon Rev. A1 Optior			
40	2	R25,R26	Resistor, 1Meg, 5%, 1/16W, 0603	Yageo America	9C06031A1004JLHFT	Required for buspower operation on revision A1 only
			Group 4 -- External xD Resistors Option			
41	2	R15, R19	Resistor, 2.2K, 5%, 1/16W, 0603	KOA Speer	RK73B1JLTD222J	Not needed for production
42	4	R13,R14,R17,R18	Resistor, 10K, 5%, 1/16W, 0603	Yageo America	9C06031A1002JLHFT	Not needed for production