

# EVB-USB2230-DC-IR, EVB-USB2230 Daughter Card (Dongle)

EVB-USB2230-DC-IR Rev. C

USB2230 CIR/IrDA Dongle Daughter Card Revised: January 10, 2007



Bill Of Materials January 10, 2007

Item	Qty	Part Reference	Description	Manufacturer	Part Number	Notes
1	1	C9	Capacitor, 1.0uF, 16VDC, 10%, X5R, 0805	Panasonic	ECJ-GVB1C105K	
2	2	C5,C8,C10,C11	Capacitor, 0.1uF, 25V, 10%, X7R, 0603	Panasonic	ECJ-1VB1E104K	C8 not needed for IrDA
3	4	C4,C12	Capacitor, 4.7uF, 6.3VDC, 20%, X5R, 0805	Panasonic	ECJ-2FB0J475M	
4	1	C7	Capacitor, 10uF, 6.3VDC, 20%, X5R, 0805	Panasonic	ECJ-2FB0J106M	C7 not needed for IrDA
5	1	J1	Header, 2 x 4, 0.1 Inch, Female, Vertical	AMP	534206-4	
6	1	J3	Header, 1 x 3, 0.1 Inch, Vertical	Samtec	TSW-103-14-L-S	
7	1	LED2	LED, Bright Red, 0804, Right Angle	Stanley Electric	FR1113F	
8	1	Q1	Transistor, 2N7002, N-Channel MOS-FET, 60V, 115mA, SOT-23	ON Semi	2N7002LT1	
9	1	R9	Resistor, 220, 5%, 1/16W, 0603	Yageo America	9C06031A2200JLHFT	
10	1	R12	Resistor, 10K, 5%, 1/16W, 0603	Yageo America	9C06031A1002JLHFT	
11	1	R5	Resistor, 2.7, 5%, 1/2W, 2010	SMEC	RC73L2H2R7JT	
12	1	R7	Resistor, 47, 5%, 1/8W, 0805	KOA Speer	RK73B2ALTD470J	R7 not needed for IrDA
13	2	R16,R19	Resistor, ZERO, 0.1W, 0603	Yageo America	9C06031A0R00JLHFT	R19 not needed for IrDA
14	1	U1	Module, Infra-Red Transceiver, HSDL-3602-007, 4Mb, SMT	Agilent	HSDL-3602-007	
15	1	U2	Module, CIR Receiver, GP1UV700QS, 36kHz, TH	Sharp	GP1UW700QS	U2 not needed for IrDA
16	1	U3	IC, LT1129CST-3.3, Voltage Regulator, +3.3V, 700mA, SOT-223	Linear Technology	LT1129CST-3.3	
17	1	C1	Capacitor, 1.0uF, 16VDC, 10%, X5R, 0805	Panasonic	ECJ-GVB1C105K	Do Not Populate
18	3	C2,C3,C6	Capacitor, 0.1uF, 25V, 10%, X7R, 0603	Panasonic	ECJ-1VB1E104K	Do Not Populate
19	2	J2,J7	Header, 1 x 3, 0.1 Inch, Vertical	Samtec	TSW-103-14-L-S	Do Not Populate
20	1	J6	Header, 1 x 2, 0.1 Inch, Vertical	Samtec	TSW-102-14-L-S	Do Not Populate
21	1	LED1	LED, Bright Orange, 0804, Right Angle	Stanley Electric	FA1113F	Do Not Populate
22	2	LED3,LED4	LED, Bright Red, 0804, Right Angle	Stanley Electric	FR1113F	Do Not Populate
23	1	Q8	Transistor, NDS352AP, P-Channel MOS-FET, 30V, 0.9A, SOT-23	Fairchild	NDS352AP	Do Not Populate
24	3	R1,R8,R10	Resistor, 220, 5%, 1/16W, 0603	Yageo America	9C06031A2200JLHFT	Do Not Populate
25	1	R2	Resistor, 100K, 5%, 1/16W, 0603	Yageo America	9C06031A1003JLHFT	Do Not Populate
26	2	R3,R4	Resistor, 10K, 5%, 1/16W, 0603	Yageo America	9C06031A1002JLHFT	Do Not Populate
27	2	R6,R11	Resistor, 330K, 5%, 1/16W, 0603	Yageo America	9C06031A3303JLHFT	Do Not Populate
28	1	R13	Resistor, 220K, 5%, 1/16W, 0603	Yageo America	9C06031A2203JLHFT	Do Not Populate
29	1	R18	Resistor, ZERO, 0.1W, 0603	Yageo America	9C06031A0R00JLHFT	Do Not Populate
30	1	U4	IC, 74AHC74, Dual D-Type Flip Flop, SO-14	Texas Instrument	SN74AHC74DR	Do Not Populate
31	1	U5	IC, 74LVC2G53, Analog Mux, VSSOP-8	Texas Instrument	SN74LVC2G53DCUR	Do Not Populate
32	1	U6	IC, 74AHC00, Quad 2 Input NAND Gate, TSSOP-14	TI	SN74AHC00QPWR	Do Not Populate