

BOM for MSP-TS430PN80USB

PCB-Rev. 1.2

8/12/2009

Bom Rev 1.0
Bom Rev 1.1
Bom Rev 1.2

Initial Sebastian Gerlich
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7/9/2009 R11 is now beeing populated
8/12/2009 C3, C4 changed

Pos.	Ref Des	Number per board	Description	DigiKey part #	Comment
1	C1, C2	0	12pF, SMD0805		DNP: C1, C2
1.1	C3, C4	2	47pF, SMD0805		
2	C6, C7	2	10uF/6.3V, Tantal Size B	511-1463-2-ND	
3	C5, C11, C13, C14	4	100nF, SMD0805	311-1245-2-ND	
3.1	C10, C12	0	100nF, SMD0805	311-1245-2-ND	DNP: C10, C12
4	C8	1	2.2nF, SMD0805		
5	C9	1	470nF, SMD0805	478-1403-2-ND	
6	D1	1	green LED, SMD0805	P516TR-ND	
7	J1, J2, J3, J4	4	20-pin header, TH		DNP: headers and receptacles enclosed with kit. Keep vias free of solder.
				SAM1029-20-ND	: Header : Receptacle
7.1		4	20-pin header, TH		DNP: headers and receptacles enclosed with kit. Keep vias free of solder.
				SAM1213-20-ND	: Header : Receptacle
8	J5	1	3-pin header, male, TH	SAM1035-03-ND	
9	JP5, JP6, JP7, JP8, JP9, JP10	6	3-pin header, male, TH	SAM1035-03-ND	place jumpers on pins 2-3
10	JP1, JP2	2	2-pin header, male, TH	SAM1035-02-ND	place jumper on header
	JP4	1		SAM1035-02-ND	place jumper only on one pin
11	JP3	1	3-pin header, male, TH	SAM1035-03-ND	place jumper on pins 1-2
12		10	Jumper	15-38-1024-ND	Place on: JP1, JP2, JP3, JP4, JP5, JP6, JP7, JP8, JP9, JP10
13	JTAG	1	14-pin connector, male, TH	HRP14H-ND	
14	Q1	0	Crystal	Q2: 4MHz Buerklin: 78D134	DNP: Q1 Keep vias free of solder
15	Q2	1	Crystal	Q2: 4MHz Buerklin: 78D134	
16	R3, R7	2	330 Ohm, SMD0805	541-330ATR-ND	
17	R1, R2, R4, R6, R8, R9, R12	3	0 Ohm, SMD0805	541-000ATR-ND	DNP: R6, R8, R9, R12
18	R10	1	100 Ohm, SMD0805	Buerklin: 07E500	
18	R11	1	1M Ohm, SMD0805		
18	R5	1	47k Ohm, SMD0805	541-47000ATR-ND	
19	U1	1	Socket:IC201-0804-014		Manuf.: Yamaichi
20	PCB	1	79 x 77 mm		2 layers
21	Rubber stand off	4		Buerklin: 20H1724	apply to corners at bottom side
22	MSP430	2	MSP430F5529		DNP: enclosed with kit. Is supplied by TI
23	IsolierScheibe zu Q2	1	insulating disk to Q2	http://www.ettlinger.de/Art_Detail.cfm?ART_ARTNUM=70.08.121	
27	C33	1	220n	Buerklin: 53D2074	
28	C35	1	10p	Buerklin: 56D102	
29	C36	1	10p	Buerklin: 56D102	
30	C38	1	220n	Buerklin: 53D2074	
31	C39	1	4u7	Buerklin: 53D2086	
32	C40	1	0.1u	Buerklin: 53D2068	
33	D2, D3, D4	3	LL103A	Buerklin: 24S3406	
34	IC7	1	TPD4E004		Manu: TI
36	LED	0	JP3QE	SAM1032-03-ND	DNP
37	LED1	0	LEDCHIPLED 0603	FARNELL: 852-9833	DNP
38	LED2	0	LEDCHIPLED 0603	FARNELL: 852-9868	DNP
39	LED3	0	LEDCHIPLED 0603	FARNELL: 852-9841	DNP
40	R13, R15, R16	0	470R	Buerklin: 07E564	DNP
41	R33	1	1k4 / 1k5	Buerklin: 07E612	
42	R34	1	27R	Buerklin: 07E444	
43	R35	1	27R	Buerklin: 07E444	
44	R36	1	33k	Buerklin: 07E740	
45	S1	0	PB	P12225STB-ND	DNP
46	S2	0	PB	P12225STB-ND	DNP
46	S3	1	PB	P12225STB-ND	
47	USB1	1	USB RECEPTACLE	FARNELL: 117-7885	