



**TRK-MPC5604P Rev. B Component List     March 16, 2011**

Components On Top				
Description	Quantity	Mounting Style	Designator	Manufacture Part Number
1 Pin Straight Header, 0.1" Thru-hole	1	1 PIN PROBE	TP1	Singatron: 2201-01-S-02-6.0/3.0
2X1 Pin Straight Header, 0.1" Thru-hole	17	2 PIN HEADER	J4, J5, J9, J10, J15, J16, J23, J30, J31, J32, J33, J34, J35, TP2, TP3, TP4, TP5	Singatron: 2201-02-S-02-6.0/3.0
2X2 Pin Straight Header, 0.1" Thru-hole	4	2X2 PIN HEADER	J6, J11, J12, J22	Singatron: 2202-04-S-02-6.0/3.0
3X1 Pin Straight Header, 0.1" Thru-hole	10	3 PIN HEADER	J2, J13, J14, J17, J18, J19, J24, J25, J29, J36	Singatron: 2201-03-S-02-6.0/3.0
3X2 Pin Straight Header, 0.1" Thru-hole	5	3X2 PIN HEADER	J1, J3, JP8, J20, J21	Singatron: 2202-06-S-02-6.0/3.0
4X2 Pin Straight Header, 0.1" Thru-hole	3	4X2 PIN HEADER	J26, J27, J28	Singatron: 2202-08-S-02-6.0/3.0
6X2 Pin Straight Header, 0.1" Thru-hole	1	6X2 PIN HEADER	P7	Singatron: 2202-12-S-02-6.0/3.0
7X1 Pin Straight Header, 0.1" Thru-hole	1	7 PIN ROW	JP9	Singatron: 2201-07-S-02-6.0/3.0
7X2 Pin Shrouded Header	1	7X2 PIN HEADER_SLOT	JP7	Singatron: 2302-14-S-10-3.2
8X2 Pin Straight Header, 0.1" Thru-hole	6	8X2 PIN HEADER	P1, P2, P3, P4, P5, P6	Singatron: 2202-16-S-02-6.0/3.0
LIN CONNECTOR	2	LIN CONN MOLEX 39-29-5043	JP5, JP6	Molex: 39-29-5043
PJ-102A DC Power Jack 2.1mm/5.5mm	1	POWER JACK DS-202 CP-L SLOT	JP1	CUI: PJ-102A DC 2.1mm/5.5mm
USB Type B Right Angle Connector	1	USB-B	JP2	Singatron: KS001-BNW-L
DB9 Male Right Angle .318 D-Sub	1	DB9M SLOT	JP3	Tyco Electronics: 5747840-4
Slide Power Switch DPDT	1	POWER23 PIN	K1	E-Switch: EG2201
Light Touch Button, Height=7.0mm	5	PTS645S	S1, S2, S3, S4, S5	Panasonic: EVQ-PAC07K
Surface Mount LED ORANGE	2	LED 1206 0805	D1, D7	Avago: HSMD-C170
Surface Mount LED YELLOW	2	LED 1206 0805	D2, D8	Avago: HSMY-C170
Surface Mount LED GREEN	5	LED 1206 0805	D3, LED1, LED2, LED3, LED4	Avago: HSMG-C170
Surface Mount LED RED	3	LED 1206 0805	D4, D5, D6	Avago: HSMH-C170
Capacitor 10 pF 50V (NPO) Ceramic	2	RES 0603	C49, C50	TDK:C0603CH1E100D
Capacitor 0.1 uF 50V (X7R)Ceramic	4	RES 0603	C44, C45, C46, C81	Kemet: C0603C104M5RACTU
10 uF 10V Tantalum 20% Tolerance	2	CAP EIA B	C38, C78	Vishay: 293D106X9016B2TE3
0 Ohm 5% 1/10W 0603 SMD	2	RES 0603	R59, Rs1	Vishay/Dale: CRCW06030000Z0EA
Resistor 33 Ohm 1% 1/4 W Thick Film	2	RES 1206 0805	R43, R44	Dale: CRCW080533R0FKEA
Resistor 60 Ohm 5% 1/16W	2	RES 0603	R38, R39	Dale: CRCW060360R0JNEA
Resistor 10K Ohm 5% 1/10W	1	RES 0603	R58	Dale: CRCW060310K0JNEA
Resistor 47K Ohm 5% 1/10W	1	RES 0603	R21	Dale: CRCW060347K0FKEA
Resistor Network 510 Ohm 5%	1	RES 0603	R15	CTS: 742C043511JP



Resistor 100K Ohm 5% 1/10W	2	RES 0603	R70, R71	Dale: CRCW0805100KJNEA
10K Potentiometer	1	POT-3	W1	Bourns: 3352W-1-103LF
NX8045GB-8.000M	1	CRYSTAL NX8045GB	Y1	NDK:NX8045GB-8.000M
PNP Transistor BCP52	2	SOT-223	T1, T2	Fairchild: BCP52
MCDMR-04-T or MCEMR-04-T	1	MCDMR-04	SW1	Multicomp: MCEMR-04-T
Ferrite Bead 1.5A 26Ohm@100 MHz	1	RES 1206 0805	FB1	Steward: MI1206K260R-10;
Schottky Power Diode 2A 40V SS24T3G	1	DO-214AA	D12	ON Semi: SS24T3G
MPC5604P	1	LQFP144	U1	Top
MCZ33905S5EK	1	SOIC32 EP	U2	Freescale: MCZ33905S5EK
SN74LVC1G08DBV	1	SOT 23-5	U3	TI: SN74LVC1G08DBV
AS1117M3 or LM1117MPX-ADJ	1	SOT-223	U6	Alpha: AS1117-M3 or
SP0503BAHTG	1	SOT143-4	U7	Littlefuse: SP0503BAHTG
MIC2026-1YM	1	SOIC8	U9	Micrel: MIC2026-1YM
SN74HCT125	1	SOIC14	U10	TI: SN74HCT125DR
SFH5711-2/3	1	PHOTOCELL_SMT	U14	Osram: SFH5711-2/3
<b>Total Components On Top</b>	106			
<b>Components Not Mounted</b>	11	C55, J7, J8, JP4, JP10, Rf1, R60, R67, R68, R69, U5		



### Components On Bottom

Description	Quantity	Mounting Style	Designator	Manufacture Part Number
Capacitor 18 pF 50V (NPO) Ceramic	2	RES 0603	C73, C74	AVX: 06035A180JAT2A
Capacitor 470pF 25V Ceramic	6	RES 0603	C1, C3, C5, C7, C31, C61	TDK: C0603JB1E471K
Capacitor 1.0 nF 50V (X7R)Ceramic	2	RES 0603	C47, C63	Murata: GRM188R71E102KA01D
Capacitor 4.7nF 50V (X7R)Ceramic	1	RES 0603	C68	AVX: 06035C472KAT2A
Capacitor 10nF 50V (X7R)Ceramic	5	RES 0603	C40, C64, C69, C72, C77	AVX: 06035C103KAT2A
Capacitor 0.1 uF 50V (X7R)Ceramic	25	RES 0603	C2, C4, C6, C8, C9, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C28, C42, C43, C48, C65, C70, C71, C76, C79, C80	Kemet: C0603C104M5RACTU
Capacitor 0.22 uF 50V (X7R)Ceramic	4	RES 0603	C30, C35, C36, C37	AVX: 06035C221KAT2A
Capacitor 2.2uF 16V Tantalum	1	CAP EIA B	C67	AVX: TAJB225K016R
Capacitor 4.7uF 16V Tantalum	1	CAP EIA B	C66	AVX: TAJB475K016R
10 uF 10V Tantalum 20% Tolerance	10	CAP EIA B	C27, C29, C32, C33, C34, C39, C56, C57, C75, C82	Vishay: 293D106X9016B2TE3
Capacitor 22uF 16V Tantalum	3	CAP EIA B	C58, C59, C60	Vishay: 293D226X9016B2TE3
GF1A	2	DO-214BA	D9, D10	Fairchild: GF1A
0 Ohm 5% 1/10W 0603 SMD	3	RES 0603	R7, R27, R28	Vishay/Dale: CRCW06030000Z0EA
Resistor 330 Ohm 5% 1/16W	1	RES 0603	R53	Dale: CRCW0603331JNEA
Resistor 1K Ohm 5% 1/10W	4	RES 0603	R13, R14, R61, R62	Dale: CRCW0603102JNEA
Resistor 3.92K Ohm 1% 1/10W	1	RES 0603	R19	Dale: CRCW06033K92FKEA
Resistor 4.7K Ohm 5% 1/16W	6	RES 0603	R5, R8, R9, R11, R52, R63	Dale: CRCW0603472JNEA
Resistor 7.68K Ohm 1% 1/10W	1	RES 0603	R12	Dale: CRCW06037K68FKEA
Resistor 10.0K Ohm 1% 1/10W	2	RES 0603	R6, R18	Dale: CRCW0603103FKEA
Resistor 10K Ohm 5% 1/10W	23	RES 0603	R1, R2, R3, R4, R22, R24, R25, R26, R45, R46, R47, R48, R49, R50, R54, R55, R56, R57, R64, R65, R66, R72, R73	Dale: CRCW060310K0JNEA
Resistor 15K Ohm 5% 1/10W	1	RES 0603	R37	Dale: CRCW060315K0JNEA
Resistor 10M Ohm 5% 1/10W	1	RES 0603	R51	Dale: CRCW0603106JNEA
Resistor Network 510 Ohm 5%	1	RESISTOR NETWORK EXB-38V	RP3	CTS: 742C043511JP
Resistor Network 10K Ohm 5%	2	RESISTOR NETWORK EXB-38V	RP1, RP2	CTS: 742C043104JP
MMSZ8V2T1G	1	SOD-123	D11	On Semi: MMSZ8V2T1G
Ferrite Bead 1.5A 26Ohm@100 MHz	1	RES 1206 0805	FB6	Steward: MI1206K260R-10;
Resettable Fuse 1.1A	1	FUSE1	FUSE1	Little Fuse: 1812L110PR
20X2 SMTThrough-Hole Female Header	1	SMT	P8	Samtec: SSM-140-L-DV-BE-A-K
MMBT3904LT1G	1	SOT-23	Q1	On Semi: MMBT3904LT1G



BCP68	1	SOT-223	Q2	Fairchild: BCP68
ADM6315-26D3ARTZ	1	SOT-143	U4	Analog Devices: ADM6315-26D3ARTZ
NC7WZ04	1	SC70	U8	Fairchild: NC7WZ04
SN74LVC2G125	3	TI DCT8	U11, U12, U13	TI: SN74HCT125DR
MC9S08JM60 44PIN	1	MCU QFP44	U15	FSL:MC9S08JM60 44PIN
4MHz HC49 10pF Surface Mount Crystal	1	CRYSTAL SMT	Y2	Citizens: HCM49-4.000MABJ-UT
Ferrite Bead 1.5A 26Ohm@100 MHz	6	RES 1206 0805	FB2, FB4, FB7, FB8, FB9, L1000	Steward: MI1206K260R-10;
Resistor 510 Ohm 5% 1/16W	2	RES 0603	R16, R20	Dale: CRCW0603511JNEA
AS1117M3 or LM1117MPX-ADJ	1	SOT-223	U16	Alpha: AS1117-M3 or National:LM1117MPX-ADJ
<b>Total Components On Bottom</b>	<b>130</b>			
<b>Components Not Mounted</b>	9	C51, C52, C53, C54, C62, R10, R17, R23, FB5		