



# xPC56XXMB Rev. A.0 Component List

February 21, 2008

## Components on Top

Description	Quantity	Mounting Style	Designator	Manufacture Part Number
2X1 Pin Straight Header, 0.1" Thru-hole	12	0.1" Thru-hole	J3, J6, J12, J13, J14, J16, J17, J18, J22, J23, J24, J37	Singatron: 2201-02-S-02-6.0/3.0
3X1 Pin Straight Header, 0.1" Thru-hole	7	0.1" Thru-hole	J9, J27, J28, J29, J30, J36, J40	Singatron: 2201-03-S-02-6.0/3.0
3X2 Pin Straight Header, 0.1" Thru-hole	3	0.1" Thru-hole	J4, J11, J15	Singatron: 2201-06-S-02-6.0/3.0
4X1 Pin Straight Header, 0.1" Thru-hole	2	0.1" Thru-hole	J10, PJ12	Singatron: 2201-04-S-02-6.0/3.0
4X2 Pin Straight Header, 0.1" Thru-hole	3	0.1" Thru-hole	J5, J7, J8	Singatron: 2201-08-S-02-6.0/3.0
9X2 Pin Straight Header, 0.1" Thru-hole	10	0.1" Thru-hole	PJ1, PJ2, PJ3, PJ4, PJ5, PJ6, PJ7, PJ8, PJ9, PJ10, PJ11	Singatron: 2201-18-S-02-6.0/3.0
0.1 uF 25V (X7R) Ceramic	9	RES 0603	C32, C41, C42, C43, C50, C51, C52, C54, C56	Murata: GRM188R71E104KA01D
Capacitor 1.0uF 25V X7R 10% Ceramic	1	RES 1206 0805	C23	TDK: C3216X7R1E105K
300uF 16V Electrolytic 20%	2	Thru-hole	C3, C5	Panasonic: ECA1CHG331
DB9F	1		DB4	CableWholeSale.com: 3530-14009
DB9M	2		DB1, DB2	Tyco Electronics: 5747840-4
LIN CONNECTOR	1	Thru-hole	LIN1	Molex: 39-29-5043
AMP_120 WAY	2	SMT	JPORTA, JPORTB	AMP: 5-5179009-5
DIN41612_2X32	1	DIN41612_2X32	J2	DIN41612-0642-20-20
DIN41612_4X32	1	DIN41612_4X32	J1	DIN41612-1282-20-20
Power Jack 2.5mm/5.5mm	1	Thru-hole	P1	CUI: PJ-102B
Slide Power Switch DPDT	1	Thru-hole	K1	E-Switch: EG2201
Light Touch Button, Height=7.0mm	4	PTS645S	KEY1, KEY2, KEY3, KEY4	Panasonic: EVQ-PAC07K
Surface Mount LED GREEN	4	LED 1206 0805	LED1, LED2, LED3, LED4	Avago: HSMG-C150
Surface Mount LED RED	2	LED 1206 0805	D5, D6	Avago: HSMH-C170
Ultrafast recovery diode	1	DPAK	D3	ST: STTH4R02U
N-channel 60V - 0.032O - 24A Power MOSFET	3	DPAK	T1, T2, T3	ST: STD20NF06L
10K Potentiometer	1	POT-3	W1	Bourns: 3352W-1-103LF
Ferrite Bead 1.5A 26 Impedance@100 MHz	3	RES 1206 0805	FB1, FB2, FB3	Steward: MI1206K260R-10;
TDK Inductors VLF10045T-220M2R8	2	VLF10045T-220M2R8	L1, L2	VLF10045T-220M2R8
MAX232	1	SOIC16	U2	Maxim: MAX232CSE+
MC33661	1	SOIC8	U5	Freescale: MCZ33661EF
High Speed CAN Transceiver	1	SOIC8	U4	NXP: TJA1050T
Fault-tolerant CAN transceiver	1	SOIC14	U3	NXP: TJA1053T
<b>Total componenets mounted on top</b>	<b>83</b>			
<b>Components not mounted on top</b>	<b>22</b>	<b>DB3, DB5, FB4, FB5, J19, J20, J21, J25, J26, J31, J32, J33, J34, J35, J38, J39, LIN2, R20, R22, U6, U7, U8</b>		

Shunts (Jumpers) Installed				
Description	Quantity	Mounting Style	Designator	Manufacture Part Number
2 pin Shunt (Jumper)	1		J5 5&6	Jameco: 22024
2 pin Shunt (Jumper)	4		J7 all on	Jameco: 22024
2 pin Shunt (Jumper)	4		J8 all on	Jameco: 22024
2 pin Shunt (Jumper)	1		J9 1&2	Jameco: 22024
2 pin Shunt (Jumper)	2		J11 3&5,4&6	Jameco: 22024
2 pin Shunt (Jumper)	1		J12 1&2	Jameco: 22024
2 pin Shunt (Jumper)	2		J15 1&3,2&4	Jameco: 22024
2 pin Shunt (Jumper)	1		J16 1&2	Jameco: 22024
2 pin Shunt (Jumper)	1		J17 1&2	Jameco: 22024
2 pin Shunt (Jumper)	1		J18 1&2	Jameco: 22024
2 pin Shunt (Jumper)	1		J29 2&3	Jameco: 22024
2 pin Shunt (Jumper)	1		J30 2&3	Jameco: 22024
2 pin Shunt (Jumper)	1		J36 1&2	Jameco: 22024
2 pin Shunt (Jumper)	1		J40 1&2	Jameco: 22024
<b>Total number of jumpers</b>	<b>22</b>			



<b>Components on Bottom</b>				
Description	Quantity	Mounting Style	Designator	Manufacture Part Number
220 pF 50V (NPO) Ceramic	1	RES 0603	C33	AVX: 06035A221JAT2A
1.0 nF 50V (X7R) Ceramic	3	RES 0603	C18, C25, C34	AVX: 06035C102KAT2A
0.01 uF 50V (X7R) Ceramic	17	RES 0603	C1, C4, C6, C17, C24, C44, C45, C46, C47, C48, C49, C53, C55, C57, C58, C59, C60	AVX: 06035C103KAT2A
1.0 uF 25V (X7R) Ceramic	4	RES 1206 0805	C19, C20, C21, C22	TDK: C3216X7R1E105K
1.0 uF 10v Tantalum 20% Tolerance	2	CAP EIA B	C11, C12	Vishay: 293D105X9016B2TE3
2.2 uF 10v Tantalum 20% Tolerance	4	CAP EIA B	C7, C8, C9, C10	Vishay: 293D225X9016B2TE3
10 uF 10v Tantalum 20% Tolerance	3	CAP EIA B	C2, C13, C16	Vishay: 293D106X9016B2TE3
22 uF 10v Tantalum 20% Tolerance	2	CAP EIA B	C14, C15	Nichicon: F931A226MBA
0 Ohm 5% 1/10W 0603 SMD	1	RES 0603	R14	Vishay/Dale: CRCW06030000Z0EA
0.05 Ohm 5% 1W 2512 SMD	1	RES 2512	R1	Vishay/Dale: WSL2512R0500FEA
120 Ohm 5% 1/10W 0603 SMD	2	RES 0603	R16, R18	Dale: CRCW0603121JNEA
Resistor 1.0K Ohm 5% 1/10 W Thick Film	1	RES 0603	R4	Dale: CRCW0603102JNEA
Resistor 3.0K Ohm 5% 1/10 W Thick Film	1	RES 0603	R3	Dale: CRCW0603302JNEA
Resistor 4.7K 1/10W	1	RES 0603	R15	Dale: CRCW0603472JNEA
Resistor 10K 1/10W 1%	1	RES 0603	R13	Dale: CRCW0603103FKEA
Resistor 10K 1/10W	8	RES 0603	R7, R8, R9, R10, R11, R17, R19, R23,	Dale: CRCW0603103JNEA
Resistor 47K 1/10W 1%	1	RES 0603	R12	Dale: CRCW0603473FKEA
Resistor 51K 1/10W	1	RES 0603	R2	Dale: CRCW0603513FKEA
Resistor 510 Ohm 5% 1/10 W Network EXB-38V	1	Resistor Network EXB-38V	RP2	CTS: 742C083511JPTR
Resistor 10K Ohm 5% 1/10 W Network EXB-38V	1	Resistor Network EXB-38V	RP1	CTS: 742C083103JPTR
GF1A	1	DO-214BA	D8	GF1A
Power Schottky Rectifier	1	DO-214BA	D1	ST: STPS3L60S
STPS5H100B	1	DPAK	D2	ST: STPS5H100B
Ultrafast recovery diode	1	DPAK	D4	ST: STTH4R02U
Multiple Supply For Engine Control	1	POWERSO36	U1	ST: L9758-5M
<b>Total componenets mounted on bottom</b>	<b>61</b>			
<b>Components not mounted on bottom</b>	<b>24</b>	<b>C26, C27, C28, C29, C30, C31, C35, C36, C37, C38, C39, C40, D7, L3, L4, R5, R6, R21, R24, R25, R26, R27, RP3, RP4</b>		