

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
Total componenets mounted on top	83			
Components not mounted on top	22	DB3, DB5, FB4, FB5, J19, J20, J21, J25, J26, J31, J32, J33, J34, J35, J38, J39, LIN2, R20, R22, U6, U7, U8		

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
Total number of jumpers	22			

Components on Bottom				
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
Total componenets mounted on bottom	61			
Components not mounted on bottom	24	C26, C27, C28, C29, C30, C31, C35, C36, C37, C38, C39, C40, D7, L3, L4, R5, R6, R21, R24, R25, R26, R27, RP3, RP4		