RavAGE 0.1-alpha Bill of Materials CPU.SchDoc															
								Designator	Description	Manufacturer Part No.	Manufacturer	Element14 Part No.	Qty	Price (ea)	Sub-Total
								R1	3k3 Resistor 100mW 1% 0603	RC0603FR-073K3L	YAGEO (PHYCOMP)	9238549 (min order qty of 50)	50	\$0.008	\$0.400
R2, R3, R4, R5, R6	10k Resistor 100mW 1% 0603	RC0603FR-0710KL	YAGEO (PHYCOMP)	9238603 (min order qty of 50)	50	\$0.008	\$0.400								
R7	2k4 Resistor 100mW 1% 0603	CRCW06032K40FKEA	VISHAY DRALORIC	1469766	1	\$0.050	\$0.050								
R8	1k Resistor 100mW 1% 0603	RC0603FR-071KL	YAGEO (PHYCOMP)	9238484 (min order qty of 50)	50	\$0.008	\$0.400								
C1, C2, C3, C4, C5, C6, C11, C12, C13	0.22uF Capacitor X7R Ceramic 10V 10% 0603	0603ZC224KAT2A	AVX	1327683 (min order qty of 10)	10	\$0.106	\$1.060								
C7, C8	18pF Capacitor COG/NPO Ceramic 50V 5% 0603	C0603C180J5GACTU	KEMET	1414620 (min order qty of 10)	10	\$0.024	\$0.240								
C9	6.8nF Capacitor COG/NPO Ceramic 50V 10% 0603	C0603C682K5RACTU	KEMET	1414649 (min order qty of 10)	10	\$0.026	\$0.260								
C10	680pF Capacitor COG/NPO Ceramic 100V 5% 0603	C0603C681J1GACTU	KEMET	1813442 (min order qty of 10)	10	\$0.114	\$1.140								
C14, C19	0.1uF Capacitor X7R Ceramic 10V 10% 0603	MCCA000255	MULTICOMP	1759122 (min order qty of 100)	100	\$0.016	\$1.600								
C15, C16, C17, C18	10uF Capacitor MLCC 10V 10% 0805	100R15X106KV4E	JOHANSON DIELECTRICS	1886102 (min order qty of 10)	10	\$0.258	\$2.580								
D1	LED 0603						\$0.000								
J1	BDM Header 2x3 DIL						\$0.000								
JP1	Firmware Load Jumper 1x2 SIL						\$0.000								
Y1	Crystal 16.0Mhz 18pF HC49/US	HCM49 16.000MABJ-UT	CITIZEN AMERICA	1611734	1	\$1.200	\$1.200								
Y2	Crystal 32.768kHz 12.5pF SMD	ABS10-32.768KHZ-T	ABRACON	1633675	1	\$1.800	\$1.800								
U1	IC, MICROCONTROLLER, LQFP-144	MC9S12XDP512MAG	FREESCALE	1579847	1	\$39.240	\$39.240								
U2	IC, RTCC, SOIC-8	M41T56M6E	STMICROELECTRONICS	9882650	1	\$2.400	\$2.400								

RavAGE 0.1-alpha Bill of Materials Power Supplies.SchDoc Designator Description Manufacturer Part No. Manufacturer Element14 Part No. Qty Price (ea) Sub-Total R9 20k Resistor 100mW 1% 0603 ERJ3EKF2002V PANASONIC 2059432 (min order qty of 50) 50 \$0.020 \$1.000 R10 29k4 Resistor 100mW 0.1% 0603 RP73D1J29K4BTDG TE CONNECTIVITY 1752638 (min order qty of 5) 5 \$2.040 \$10.200 R11 330R Resistor 1W 1% 2512 RC2512FK-07330RL YAGEO (PHYCOMP) 1283136 (min order atv of 5) \$0.860 5 \$4.300 R12 470R Resistor mW 1% 0603 RC0603FR-07470RL YAGEO (PHYCOMP) 9238441 (min order gty of 50) 50 \$0.008 \$0.400 R13, R14, R16 10k Resistor 100mW 0.1% 0603 RG1608N-103-B-T1 SUSUMU 1653317 3 \$1.120 \$3.360 R15 604R Resistor 100mW 0.1% 0603 RP73D1J604RBTDG TE CONNECTIVITY 1752458 5 \$0.992 \$4.960 C20 10uF Capacitor MLCC 35V 10% 1206 GMK316AB7106KL-TR TAIYO YUDEN 2100124 1 \$1.160 \$1.160 C21 22uF Capacitor MLCC 10V 10% 1210 MCCA000576 MULTICOMP 1759459 (min order gty of 10) 10 \$0.376 \$3.760 C22 0.1uF Capacitor X7R Ceramic 50V 10% 0603 06035C104JAT2A AVX 1740621 (min order qty of 10) 10 \$0.876 \$8.760 ***refer to C14, C19 on CPU.SchDoc page of BOM*** C23 0.1uF Capacitor X7R Ceramic 10V 10% 0603 0 \$0.000 \$0.000 470nF Capacitor X7R Ceramic 50V 10% 0805 C0805C474K5RACTU 10 C24 KEMET 1907053 (min order atv of 10) 0.376 \$3.760 47uF Capacitor MLCC 10V 20% 1210 C25 MCCA000578 MULTICOMP 1759461 (min order qty of 10) 10 1.82 \$18.200 5VLED LED 0603 \$0.000 1597001 (min order qty of 10) F1, F2 POLYFUSE, 500mA, 15V, 1812L 1812L050PR LITTELFUSE 10 1.14 \$11.400 Q1 TRANSISTOR, PNP, MJD127, TO-252 MJD127G ON SEMICONDUCTOR 9557083 1 0.382 \$0.382 LDO REGULATOR, LM2937ES-5.0, TO-263-3 LM2937ES-5.0/NOPB NATIONAL SEMI 1469067 (min order gty of 5) U3 5 1.8 \$9.000

LM2941S/NOPB

TL431CDBZRG4

NATIONAL SEMI

TEXAS INSTRUMENTS

1150164

1053415

1

1

3.52

0.836

\$3.520

\$0.836

LDO REGULATOR, LM2941S, TO-263-5

PRECISION ADJ ZENER, TL-431

U4

U5