Sheet1

Erebus Labs Sensor BOM
Rev 1 Chris Clary Initial Build 4/1/2014

Main CPU Block				
Item	Qty	Reference	Value	Description
	1	1 PSOC3		PSOC3 microprocessor
	2	2 C2,C3	1uF	CAP CER 1uF 25V 10% X5R 0603
	3	7 C4,C5,C6,C15,C16,C17,C18	0.1uF	CAP CER 0.1uF 16V Y5V 0603
	3	2 C19,C29	22pF	CAP CER 22pF 50V NP0 0603
	4	1 R1	5.6kΩ	RES 5.6k OHM 1/8W 5% 0805 SMD
	5	1 R11	3kΩ	RES 1.5k OHM 1/8W 5% 0805 SMD
	6	1 Q1	32.768kHz	32.768KHZ 12.5PF THRU
Programmer Block				
Item	Qty	Reference	Value	Description
	7	1 C1	0.1uF	CAP CER 0.1uF 16V Y5V 0603
	8	1 ISP		CON HEADER DUAL POSITION .05" SMD
USB Interface				
Item	Qty	Reference	Value	Description
	9	1 C13	0.1uF	CAP CER 0.1uF 16V Y5V 0603
	10	2 R4,R5	22Ω	RES 22 OHM 1/10W 5% 0603 SMD
	11	1 R6	1.5ΚΩ	RES 1.5k OHM 1/8W 5% 0805 SMD
	12	1 R11	100ΚΩ	RES 100k OHM 1/8W 5% 0805 SMD
	13	1 X1	USB Mini B	
	14	1 Z1,Z2,Z3	ESD Diode	SUPRESSOR ESD 5VDC 0603 SMD
Sensor Interface				
Item	Qty	Reference	Value	Description
	15	1 C13	0.1uF	CAP CER 0.1uF 16V Y5V 0603
	16	4 R12,R13,R14,R15	10ΚΩ	RES 10k OHM 1/8W 5% 0805 SMD
	17	1 X2	RJ-45	

Sheet1

 Manufacturer
 Mfr Part Number

 Cypress
 CY8C3245PVI-150

 Taiyo Yuden
 TMK107BJ105KA-T

 Kemet
 C0603C104Z4VACTU

 TDK
 C1068C0G1H220J080AA

 Yageo
 RC0805JR-075K6L

 Yageo
 RC0805JR-073KL

 Abracon Corp.
 AB38T-32.768KHZ

Manufacturer Mfr Part Number
Kemet C0603C104Z4VACTU
Samtec FTSH-105-01-L-DV-TR

 Manufacturer
 Mfr Part Number

 Kemet
 C0603C104Z4VACTU

 Yageo
 RC0603JR-0712RL

 Yageo
 RC0805JR-07100KL

 Yageo
 RC0805JR-071K5L

Bourne Inc. CG0603MLC-05LE

ManufacturerMfr Part NumberKemetC0603C104Z4VACTUYageoRC0805JR-0710KL