

BILL OF MATERIAL					
TC4 Shield, Version 5.20					
Part	Value	Device	Package	DigiKey Cat.	Description
SURFACE MOUNT COMPONENTS					
ADC1	MCP3424SL	MCP3424SL	SO14	MCP3424-E/SL-ND	18-bit multi-channel delta-sigma AD converter with I2C interface. Microchip.
C1	10uF	C-EUC1206	C1206	495-2237-1-ND	CAPACITOR, Tantalum (SM)
C2	0.1uF	C-EUC1206	C1206	445-4007-1-ND	CAPACITOR, CERAMIC (SM)
C3	0.1uF	C-EUC1206	C1206	445-4007-1-ND	CAPACITOR, CERAMIC (SM)
C4	0.1uF	C-EUC1206	C1206	445-4007-1-ND	CAPACITOR, CERAMIC (SM)
D1	S1AB-13-F	DIODE-DO214AA	DO214AA	S1AB-FDICT-ND	DIODE (SM)
LED1		LEDCHIPLELED_0805 (LED)	CHIPLELED_0805	754-1128-1-ND	0805 LED (red)
LED2		LEDCHIPLELED_0805 (LED)	CHIPLELED_0805	754-1131-1-ND	0805 LED (green)
LED3		LEDCHIPLELED_0805 (LED)	CHIPLELED_0805	754-1128-1-ND	0805 LED (red)
IC1	24LC512	24LC512-I/SM	SO-08M	24LC512-I/SM-ND	Serial EEPROM
R1	4.7K	R-US_R1206	R1206	P4.7KECT-ND	RESISTOR (SM)
R2	4.7K	R-US_R1206	R1206	P4.7KECT-ND	RESISTOR (SM)
R3	2K	R-US_R1206	R1206	P2.0KECT-ND	RESISTOR (SM)
R4	2K	R-US_R1206	R1206	P2.0KECT-ND	RESISTOR (SM)
R5	1K	R-US_R1206	R1206	P1.0KECT-ND	RESISTOR (SM)
R6	1K	R-US_R1206	R1206	P1.0KECT-ND	RESISTOR (SM)
R7	1K	R-US_R1206	R1206	P1.0KECT-ND	RESISTOR (SM)
Q1	MMBT3904	MMBT3904LT1-NPN-SOT23-BEC (*-NPN-)	SOT23	MMBT3904FSCT-ND	NPN TRANSISTOR (SM)
Q2	MMBT3904	MMBT3904LT1-NPN-SOT23-BEC (*-NPN-)	SOT23	MMBT3904FSCT-ND	NPN TRANSISTOR (SM)
U1	MCP9800	MCP9800	SOT23-5L	MCP9800A0T-M/OTCT-ND	Temperature sensor I2C output, Microchip.
THRU-HOLE COMPONENTS					
ANLG1		PINHD-1X3	1X03	A26514-40-ND	PIN HEADER
ANLG2		PINHD-1X3	1X03	(note 1)	PIN HEADER
I/O2		PINHD-1X2	1X02	A32705-40-ND	PIN HEADER, 90 DEG
I/O3		PINHD-1X2	1X02	(note 3)	PIN HEADER, 90 DEG
I2C		PINHD-1X4	1X04	(note 1)	PIN HEADER
J1_DIGITAL		M08	1X08	(note 4)	Header 8
J2_ANALOG		M06SIP	1X06	(note 4)	Header 6
J3_DIGITAL		M08	1X08	(note 4)	Header 8
POWER		M06SIP	1X06	(note 4)	Header 6
JEE3		PINHD-1X6	1X06	(notes 1, 2)	PIN HEADER
GNDPT		JP1E	JP1	(notes 1, 2)	PIN HEADER
OT1		PINHD-1X2	1X02	(note 3)	PIN HEADER, 90 DEG
OT2		PINHD-1X2	1X02	(note 3)	PIN HEADER, 90 DEG
TC1		MPT 0.5/2-2.54	2POL254	277-1273-ND	PHOENIX CONTACT NO. 1725656
TC2		MPT 0.5/2-2.54	2POL254	277-1273-ND	PHOENIX CONTACT NO. 1725656
TC3		MPT 0.5/2-2.54	2POL254	277-1273-ND	PHOENIX CONTACT NO. 1725656
TC4		MPT 0.5/2-2.54	2POL254	277-1273-ND	PHOENIX CONTACT NO. 1725656
RST		B3F-1020		SW402-ND	Omron SWITCH TACT 6MM MOM 100GF
Notes					
1. Buy one 40-pin vertical breakaway header strip and use it for all.					JGG
2. This item is optional.					9/16/2011
3. Buy one 40-pin 90 degree breakaway header strip and use it for all.					
4. Sets of stackable headers are available from Adafruit.com					
http://www.adafruit.com/index.php?main_page=product_info&products_id=85					