

# DIY ANEMOMETER ELECTRONIC BILL OF MATERIAL

2007-10-17

34.3917 \$

The highlighted parts can be replaced by a 14 pin header, 2.54mm pitch to connect the EZ430-F2013 microcontroller board.

Ref Des	Qty	MFG P/N	MFG	Value	Description	Unit Price
C2	1	FK24Y5V1A106Z	TDK Corporation	10uF	CAP, Radial, Ceramic, 10V, 20/80%	0.3320 \$
C4	1	EKZE350ELL221MJC5S	United Chemi-Con	220uF	CAP, TH10x16, Electrolytic, 50V, 20%, LowESR	0.3800 \$
C1	1	RPEE41H104M2P1A03B	Murata	0u1F	CAP, Radial, Ceramic, 50V, 20%	0.1200 \$
D23	1	1N5819-E3/51	Diodes, Inc.	1N5819-E3/51	DIO, DO-41, Schottky, 40V, 1A	0.1500 \$
J3	1	S2B-PH-K-S	JST	S2B-PH-K-S	CON, TH 2.00mm pitch, shrouded header, 100Vac, 2A, right angle, gold plated, 1x2 pins	0.0920 \$
J4	1	S3B-PH-K-S	JST	S3B-PH-K-S	CON, TH 2.00mm pitch, shrouded header, 100Vac, 2A, right angle, gold plated, 1x3 pins	0.7640 \$
J1	1	851-93-004-20-001000	Mill-Max	851-93-004-20-001000	CON, TH 1.27mm pitch, single row, right angle socket, 1x4 pins	----
J2	1	S4B-PH-K-S	JST	S4B-PH-K-S	CON, TH 2.00mm pitch, shrouded header, 100Vac, 2A, right angle, gold plated, 1x4 pins	0.8820 \$
D2	44	LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D3		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D4		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D5		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D6		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D7		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D8		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D9		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D10		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D11		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D12		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D13		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D14		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D15		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D16		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D17		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D18		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D19		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D20		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D21		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D22		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D24		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D25		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D26		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D27		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D28		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D29		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D30		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D31		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D32		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D33		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D34		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D35		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D36		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D37		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D38		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D39		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D40		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D41		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D42		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D43		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$

D44		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D45		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
D46		LTW-2S3D7	Lite-On Inc.	White	LED, TH-5mm, 3.3V, 13000mcd, 15deg.	0.4400 \$
Q1	13	2N3904BU	Fairchild Semiconductor	2N3904	TRA, TO92, NPN, 40V, 200mA	0.1200 \$
Q2		2N3904BU	Fairchild Semiconductor	2N3904	TRA, TO92, NPN, 40V, 200mA	0.1200 \$
Q3		2N3904BU	Fairchild Semiconductor	2N3904	TRA, TO92, NPN, 40V, 200mA	0.1200 \$
Q4		2N3904BU	Fairchild Semiconductor	2N3904	TRA, TO92, NPN, 40V, 200mA	0.1200 \$
Q9		2N3904BU	Fairchild Semiconductor	2N3904	TRA, TO92, NPN, 40V, 200mA	0.1200 \$
Q10		2N3904BU	Fairchild Semiconductor	2N3904	TRA, TO92, NPN, 40V, 200mA	0.1200 \$
Q11		2N3904BU	Fairchild Semiconductor	2N3904	TRA, TO92, NPN, 40V, 200mA	0.1200 \$
Q12		2N3904BU	Fairchild Semiconductor	2N3904	TRA, TO92, NPN, 40V, 200mA	0.1200 \$
Q13		2N3904BU	Fairchild Semiconductor	2N3904	TRA, TO92, NPN, 40V, 200mA	0.1200 \$
Q14		2N3904BU	Fairchild Semiconductor	2N3904	TRA, TO92, NPN, 40V, 200mA	0.1200 \$
Q15		2N3904BU	Fairchild Semiconductor	2N3904	TRA, TO92, NPN, 40V, 200mA	0.1200 \$
Q16		2N3904BU	Fairchild Semiconductor	2N3904	TRA, TO92, NPN, 40V, 200mA	0.1200 \$
U3		2N3904BU	Fairchild Semiconductor	2N3904	TRA, TO92, NPN, 40V, 200mA	0.1200 \$
Q5	4	2N4403BU	Fairchild Semiconductor	2N4403	TRA, TO92, NPN, 40V, 600mA	0.1400 \$
Q6		2N4403BU	Fairchild Semiconductor	2N4403	TRA, TO92, NPN, 40V, 600mA	0.1400 \$
Q7		2N4403BU	Fairchild Semiconductor	2N4403	TRA, TO92, NPN, 40V, 600mA	0.1400 \$
Q8		2N4403BU	Fairchild Semiconductor	2N4403	TRA, TO92, NPN, 40V, 600mA	0.1400 \$
R5	10	CFR-25JB-10K	Vishay/Dale	10k	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0500 \$
R6		CFR-25JB-10K	Vishay/Dale	10k	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0500 \$
R7		CFR-25JB-10K	Vishay/Dale	10k	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0500 \$
R8		CFR-25JB-10K	Vishay/Dale	10k	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0500 \$
R10		CFR-25JB-10K	Vishay/Dale	10k	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0500 \$
R12		CFR-25JB-10K	Vishay/Dale	10k	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0500 \$
R14		CFR-25JB-10K	Vishay/Dale	10k	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0500 \$
R16		CFR-25JB-10K	Vishay/Dale	10k	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0500 \$
R17		CFR-25JB-10K	Vishay/Dale	10k	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0500 \$
R27		CFR-25JB-10K	Vishay/Dale	10k	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0500 \$
R18	5	CFR-25JB-470R	Vishay/Dale	470R	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0400 \$
R19		CFR-25JB-470R	Vishay/Dale	470R	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0400 \$
R21		CFR-25JB-470R	Vishay/Dale	470R	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0400 \$
R23		CFR-25JB-470R	Vishay/Dale	470R	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0400 \$
R25		CFR-25JB-470R	Vishay/Dale	470R	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0400 \$
R1	8	CFR-25JB-47K	Panasonic	470R	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0230 \$
R2		CFR-25JB-47K	Panasonic	470R	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0230 \$
R3		CFR-25JB-47K	Panasonic	470R	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0230 \$
R4		CFR-25JB-47K	Panasonic	470R	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0230 \$
R9		CFR-25JB-47K	Panasonic	470R	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0230 \$
R11		CFR-25JB-47K	Panasonic	470R	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0230 \$
R13		CFR-25JB-47K	Panasonic	470R	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0230 \$
R15		CFR-25JB-47K	Panasonic	470R	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0230 \$
R20	4	CFR-25JB-7R5	Vishay/Dale	7R5	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0870 \$
R22		CFR-25JB-7R5	Vishay/Dale	7R5	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0870 \$
R24		CFR-25JB-7R5	Vishay/Dale	7R5	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0870 \$
R26		CFR-25JB-7R5	Vishay/Dale	7R5	RES, Axial, Carbon Film, 250mW, 250V, 5%	0.0870 \$
S1	4	D6C90 F1 LFS	C&K Components	D6C90F1LFS	SWI, DIP4, 2.54mm, Key switch, square cap, 32V, 100mA, SPST, Black.	2.2400 \$
S2		D6C90 F1 LFS	C&K Components	D6C90F1LFS	SWI, DIP4, 2.54mm, Key switch, square cap, 32V, 100mA, SPST, Black.	2.2400 \$
S3		D6C90 F1 LFS	C&K Components	D6C90F1LFS	SWI, DIP4, 2.54mm, Key switch, square cap, 32V, 100mA, SPST, Black.	2.2400 \$
S4		D6C90 F1 LFS	C&K Components	D6C90F1LFS	SWI, DIP4, 2.54mm, Key switch, square cap, 32V, 100mA, SPST, Black.	2.2400 \$
U1	1	MSP430F2013IN	Texas Instruments	MSP430F2013IN	IC-PRO, DIP14, Microcontroller, 16bits, 3.6V, 270uA, 16MHz, 10I/O	3.7100 \$
U2	1	LP2950CZ-3.3/NOPB	National Semiconductor	LP2950CZ-3.3	IC-PWR, TO92, LDO, 30Vmax input, 3.3Vout, 100mA	1.1200 \$
U1B	1	EZ430-F2013	Texas Instruments		Development system for the microcontroller	20.1500 \$