

Filename: Pro4EA.tmp  
 Variant: 001  
 Generated: 3/9/2017 11:19:01 AM  
 TID #: TIDA-01406



### TIDA-01406 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC B1	1		TIDA-01406	Any	Printed Circuit Board	
2	C1, C2, C3, C4, C9, C10	6	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0402	0402
3	C5	1	4.7uF	GRM21BR71A475KA73L	MuRata	CAP, CERM, 4.7 µF, 10 V, +/- 10%, X7R, 0805	0805
4	D1	1	Red	150080SS75000	Würth Elektronik	LED, Red, SMD	LED_0805
5	D2, D3, D5	3	Green	150080GS75000	Würth Elektronik	LED, Green, SMD	LED_0805
6	D4	1	30V	BAT54C-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
7	J4	1		5747840-5	TE Connectivity	D-Sub, 2.74mm, 9 Position, R/A, TH	D-Sub, 2.74mm, 9 Position, R/A, TH
8	J5	1		HB3902U	Foxconn	Header, 2.54mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
9	J6	1		HMTSW-103-07-G-S-240	Samtec	Header, 2.54mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
10	J8, J9	2		SSHQ-123-D-08-F-LF	Major League Electronics	Female Connector, 2.54mm, 23x2, TH	Female Connector, 2.54mm, 23x2, TH
11	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650"H x 0.200"W
12	R1	1	499	CRCW0402499RFKED	Vishay-Dale	RES, 499, 1%, 0.063 W, 0402	0402
13	R2, R3	2	549	CRCW0402549RFKED	Vishay-Dale	RES, 549, 1%, 0.063 W, 0402	0402
14	R4, R5, R11, R12	4	6.65k	CRCW04026K65FKED	Vishay-Dale	RES, 6.65 k, 1%, 0.063 W, 0402	0402
15	R8, R9, R10, R13, R14	5	47k	CRCW040247K0JNED	Vishay-Dale	RES, 47 k, 5%, 0.063 W, 0402	0402
16	R15, R21	2	10k	CRA06S08310K0JTA	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 3.2x1.5mm	3.2x1.5mm
17	R17	1	825	CRCW0402825RFKED	Vishay-Dale	RES, 825, 1%, 0.063 W, 0402	0402
18	R20	1	120	RC0603FR-07120RL	Yageo America	RES, 120, 1%, 0.1 W, 0603	0603
19	R22, R23	2	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
20	S1, S2	2		ND3FR10P-R	NKK Switches	DIP Rotary Switch, BCD, 0.1 A, 5 VDC, SMD	7.92x8.12mm
21	S3, S4	2		416131160802	Würth Elektronik	Switch, SPST, Off-On, 2 Pos, SMD	5.6x3.58mm
22	T1	1	475uH	760390013	Würth Elektronik	Transformer, 475 uH, SMT	10.05x4.19x6.73 mm
23	U1	1		SN74LVC3G06DCUR	Texas Instruments	Triple Inverter Buffer/Driver With Open-Drain Outputs, DCU0008A (VSSOP-8)	DCU0008A
24	U2	1		TCA9534APWR	Texas Instruments	Low Voltage 8-Bit I2C and SMBUS Low-Power I/O Expander With Interrupt Output and Configuration Register, PW0016A (TSSOP-16)	PW0016A
25	U3	1		24LC256-I/ST	Microchip	256K I2C CMOS Serial EEPROM, TSSOP-8	TSSOP-8
26	U4	1		SN6501QDBVRQ1	Texas Instruments	Transformer Driver for Isolated Power Supplies, DBV0005A (SOT-5)	DBV0005A
27	U6	1		ISO1050DUBR	Texas Instruments	Isolated CAN Transceiver, DUB0008A (SOP-8)	DUB0008A
28	U7	1		TPD2E007DCKR	Texas Instruments	ESD Protection Array for AC Signal Data Interface, 2 Channels, -40 to +85 degC, 3-pin SC70 (DCK), Green (RoHS & no Sb/Br)	DCK0003A
29	C6, C7, C8	0	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0402	0402
30	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
31	J3	0		TSW-105-07-F-D	Samtec	Header, 2.54mm, 5x2, Gold, Black, TH	Header, 2.54mm, 5x2, TH
32	R6, R7	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
33	R16	0	0	ERJ-8GEY0R00V	Panasonic	RES, 0, 5%, 0.25 W, 1206	1206
34	R18, R19	0	33.0	CRCW060333R0FKEA	Vishay-Dale	RES, 33.0, 1%, 0.1 W, 0603	0603
35	U5	0		LP3985IM5X-5.0	Texas Instruments	Micropower, 150mA Low-Noise Ultra Low-Dropout CMOS Voltage Regulator, 5-pin SOT-23	MF05A

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
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