

TIDA-01184 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		TIDA-01184	Any	Printed Circuit Board	
2	AUX_PWR, SNS_Filter	2	Red	5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
3	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, COUT, CV0, CV1, CV2, CV3, CV4	25	0.1uF	C0805C104M5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 20%, X7R, 0805	0805
4	D0	1	200V	BAS21-7-F	Diodes Inc.	Diode, Switching, 200V, 0.2A, SOT-23	SOT-23
5	D1, D2, D3, D4, D5, D6, D7, D8	8	Blue	150080BS75000	Würth Elektronik	LED, Blue, SMD	LED_0805
6	D9, D10	2	Red	150080SS75000	Würth Elektronik	LED, Red, SMD	LED_0805
7	D11, D12, D13, D14	4	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
8	DIA_EN(1), DIA_EN(2), EN(1), EN(2), GND_IC, SEL1(1), SEL1(2), SEL2(1), SEL2(2), ST(1), ST(2)	11	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
9	GND_VBB	2		108-0740-001	Emerson Network Power	Standard Banana Jack, Uninsulated, 15A	Banana Jack
10	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
11	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
12	J1, J2	2		SSW-110-23-F-S	Samtec	Connector, Receptacle, 100mil, 10x1, Gold plated, TH	10x1 Receptacle
13	J3	1		EBM06DRAN	Sullins Connector Solutions	Female Card Edge, 3.96mm, 6x2, Gold, R/A, TH	Receptacle, 3.96mm, 6x2, TH
14	J4	1		PJ-202BH	CUI Inc.	Connector, DC Jack 2.5 mm Center Pin, TH	Conn, DC Jack, pin 2.5mm Dia.
15	Q1	1	30V	CSD17577Q3A	Texas Instruments	MOSFET, N-CH, 30 V, 19 A, SON 3.3x3.3mm	SON 3.3x3.3mm
16	R1, R4, R5, R6, R12, R18	6	1.0k	RC0603JR-071KL	Yageo America	RES, 1.0 k, 5%, 0.1 W, 0603	0603
17	R2	1	2.20k	RC0603FR-072K2L	Yageo America	RES, 2.20 k, 1%, 0.1 W, 0603	0603
18	R3, R7, R8, R9, R10, R11, R13, R14, R15, R16, R17, R20, R21, R24, R25, R26, R27, R28	18	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
19	R29	1	47.0k	RC0603FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.1 W, 0603	0603
20	R30, R31, R35, R36	4	1.65k	RC0603FR-071K65L	Yageo America	RES, 1.65 k, 1%, 0.1 W, 0603	0603
21	R32, R33	2	10k	RC1608J103CS	Samsung Electro-Mechanics	RES, 10 k, 5%, 0.1 W, 0603	0603
22	R34	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
23	S1, S2	2		SKRKAEE010	Alps	Switch, Push Button, SMD	2.9x2x3.9mm SMD
24	TP_GND1, TP_GND2, TP_GND3	3	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
25	U1	1		LM74610QDGKRQ1	Texas Instruments	Smart Diode Controller, DGK0008A	DGK0008A
26	U2	1		TPS7B6733QPWPRQ1	Texas Instruments	Automotive 450-mA High-Voltage Ultra-Low IQ Low-Dropout Regulator, PWP0020D (TSSOP-20)	PWP0020D
27	U3	1		TPS7B6750QPWPRQ1	Texas Instruments	450-mA High-Voltage Ultra-Low IQ Low-Dropout Regulator, PWP0020D	PWP0020D
28	U4	1		TPD6F002QDSVRQ1	Texas Instruments	Six-Channel EMI Filter for LCD Display / Keypad Application, DSV0012A	DSV0012A
29	U5	1		NHD-C12832A1Z-FSW-FBW-3V3	Newhaven Display International	COG Liquid Crystal Display Module, White LED Backlight 3V, SPI I/O, TH	LCD Display
30	U6	1		PCF8574ADW	Texas Instruments	Remote 8-Bit I/O Expander for I2C-Bus, 2.5 to 6.0 V, -40 to 85 degC, 16-pin SOIC (DW), Green (RoHS & no Sb/Br)	DW0016A
31	U7, U8	2		TPS1HA08AQPWPRQ1	Texas Instruments	40-V, 8-mOhm Single-Channel Smart High-Side Switch, TPS1HA08-Q1 (TSSOP-16)	TPS1HA08-Q1
32	U10, U11	2		EVE-JBBF2020B	Panasonic	ENCODER ROTARY 12MM 20PPR W/SW, TH	12.4x12.4mm,
33	U12	1		TLC59116ITPWRQ1	Texas Instruments	16-Bit Fast-Mode Plus (FM+) I2C Bus Constant-Current LED Sink Driver, 3 to 5.5 V, -40 to 85 degC, 28-pin SOP (PW28), Green (RoHS & no Sb/Br)	PW0028A
34	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2018, Texas Instruments Incorporated