

TIDA-010057 REV E2 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
PCB1	1		TIDA-010057	Any	Printed Circuit Board	
C1, C2, C183	3	10pF	GRM1555C1H100FA01D	MuRata	CAP, CERM, 10 pF, 50 V,+/- 1%, C0G/NP0, 0402	0402
C3, C4, C27, C40, C52, C53, C55, C74, C91, C92, C93, C95, C101, C112, C116, C122, C123, C124, C129, C130, C133, C151, C161, C162, C163, C165, C166, C167, C168, C169, C170, C172, C173, C177, C180, C185, C189, C202, C204, C205, C209, C210, C211, C212, C213, C226, C231, C242, C244	49	0.1uF	GRM155R61E104KA87D	MuRata	CAP, CERM, 0.1 μF, 25 V,+/- 10%, X5R, 0402	0402
C5	1	0.47uF	GRM188R61C474KA93D	MuRata	CAP, CERM, 0.47 μF, 16 V,+/- 10%, X5R, 0603	0603
C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C125, C126, C127, C128, C136, C140, C141, C142, C143, C152, C153, C154, C155, C156	28	0.1uF	C0603X6S1C104K030BC	TDK	CAP, CERM, 0.1 μF, 16 V,+/- 10%, X6S, 0201	0201
C20, C21, C145	3	22uF	C1608X5R0J226M080AC	TDK	CAP, CERM, 22 μF, 6.3 V,+/- 20%, X5R, 0603	0603
C22, C23, C117, C118	4	47uF	GRM21BR61A476ME15	MuRata	CAP, CERM, 47 μF, 10 V,+/- 20%, X5R, 0805	0805
C24	1	0.1uF	08053C104KAT2A	AVX	CAP, CERM, 0.1 μF, 25 V,+/- 10%, X7R, 0805	0805
C25, C35	2	2.2uF	CGA4J3X7R1H225K125AB	TDK	CAP, CERM, 2.2 μF, 50 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
C26	1	4.7uF	GRM188C81E475KE11D	MuRata	CAP, CERM, 4.7 μF, 25 V,+/- 10%, X6S, 0603	0603
C28, C42	2	270pF	GRM1885C1H271JA01D	MuRata	CAP, CERM, 270 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603

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C29, C38	2	0.1uF	GRM188R72A104KA35J	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	0603
C30, C31, C36, C37, C70, C71, C200, C201, C208, C214, C232, C233	12	2.2uF	C3216X7S2A225K160AB	TDK	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7S, 1206	1206
C33, C182, C186	3	100pF	885012005061	Wurth Elektronik	CAP, CERM, 100 pF, 50 V,+/- 5%, C0G/NP0, 0402	0402
C34	1	100pF	GRM1885C2A101JA01D	MuRata	CAP, CERM, 100 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
C39, C44, C48, C54, C58, C59, C61, C64, C79, C80, C86, C90, C98, C102, C105, C113, C159, C176, C188, C215, C221, C229	22	0.1uF	885012206095	Wurth Elektronik	CAP, CERM, 0.1 uF, 50 V,+/- 10%, X7R, 0603	0603
C41, C43, C56, C57, C62, C63, C81, C82, C103, C104, C157, C158, C196, C197	14	47uF	GRM219R60J476ME44D	MuRata	CAP, CERM, 47 uF, 6.3 V,+/- 20%, X5R, 0805	0805
C45, C50, C66, C75, C87, C94, C100, C106, C114, C160, C216, C225, C230	13	2700pF	CL05B272KB5NNNC	Samsung Electro-Mechanics	CAP, CERM, 2700 pF, 50 V,+/- 10%, X7R, 0402	0402
C46, C47, C67, C68, C88, C89, C96, C97, C110, C111, C134, C137, C171, C217, C218, C219, C220, C227, C228	19	47uF	GRM188R60J476ME15D	MuRata	CAP, CERM, 47 uF, 6.3 V,+/- 20%, X5R, 0603	0603
C49	1	2.2uF	CL05A225MA5NUNC	Samsung Electro-Mechanics	CAP, CERM, 2.2 uF, 25 V,+/- 20%, X5R, 0402	0402
C51	1	0.47uF	CL05A474KP5NNNC	Samsung Electro-Mechanics	CAP CER 0.47UF 10V X5R 0402	0402
C60, C65, C69, C237, C238, C239, C240	7	100pF	CL05C101JB5NNNC	Samsung Electro-Mechanics	CAP CER 100PF 50V C0G/NP0 0402	0402
C72, C241	2	1uF	C2012X7S2A105K125AB	TDK	CAP, CERM, 1 uF, 100 V,+/- 10%, X7S, 0805	0805
C73, C132, C198	3	10uF	CL05A106MP5NUNC	Samsung Electro-Mechanics	CAP, CERM, 10 uF, 10 V,+/- 20%, X5R, 0402	0402
C76	1	0.15uF	CL05B154KO5NNNC	Samsung Electro-Mechanics	CAP CER 0.15UF 16V X7R 0402	0402
C77, C164, C174	3	1uF	C1005X6S1C105K050BC	TDK	CAP, CERM, 1 uF, 16 V,+/- 10%, X6S, 0402	0402
C78	1	1000pF	CL03B102KA3NNNC	Samsung Electro-Mechanics	CAP CER 1000PF 25V X7R 0201	0201

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C83, C84, C99, C109, C131, C224, C235, C236	8	1uF	885012206052	Würth Elektronik	CAP, CERM, 1 µF, 16 V,+/- 10%, X7R, 0603	0603
C85, C108, C119, C203, C234	5	4.7uF	GRM188R61A475MAAJ	MuRata	CAP, CERM, 4.7 µF, 10 V,+/- 20%, X5R, 0603	0603
C107	1	470pF	GRM1555C1E471JA01D	MuRata	CAP, CERM, 470 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
C115	1	1uF	CL05A105KA5NQNC	Samsung Electro-Mechanics	CAP, CERM, 1 µF, 25 V,+/- 10%, X5R, 0402	0402
C120, C121, C178, C181, C191, C195, C207	7	10uF	GRM188R61C106MAALD	MuRata	CAP, CERM, 10 µF, 16 V,+/- 20%, X5R, 0603	0603
C135, C199	2	0.1uF	160R07X104KV4T	Johanson Technology	CAP, CERM, 0.1 µF, 16 V,+/- 10%, X5R, 0402	0402
C138, C139, C144, C146, C147, C148, C149, C150	8	0.01uF	GRM033R60J103KA01D	MuRata	CAP, CERM, 0.01 µF, 6.3 V,+/- 10%, X5R, 0201	0201
C175, C184, C223	3	0.22uF	CL05B224KP5NNNC	Samsung Electro-Mechanics	CAP CER 0.22UF 10V X7R 0402	0402
C179, C190, C192	3	0.01uF	885012205031	Würth Elektronik	CAP, CERM, 0.01 µF, 16 V,+/- 10%, X7R, 0402	0402
C187, C193	2	10uF	885012207026	Würth Elektronik	CAP, CERM, 10 µF, 10 V,+/- 10%, X7R, 0805	0805
C194	1	33uF	C2012X5R1A336M125AC	TDK	CAP, CERM, 33 µF, 10 V,+/- 20%, X5R, 0805	0805
C206, C243	2	0.22uF	885012206048	Würth Elektronik	CAP, CERM, 0.22 µF, 16 V,+/- 10%, X7R, 0603	0603
C222	1	1800pF	GRM155R71H182KA01D	MuRata	CAP, CERM, 1800 pF, 50 V, +/- 10%, X7R, 0402	0402
D1, D2, D9	3	Amber	HSMA-C190	Avago	LED, Amber, SMD	1.6x0.8mm
D3, D6	2	150V	STPS1150A	STMicroelectronics	Diode, Schottky, 150 V, 1 A, SMA	SMA
D4, D5, D7, D8, D10, D11, D12, D13, D14, D15, D16, D17, D18	13	75V	1N4148X-TP	Micro Commercial Component	Diode, Switching, 75 V, 0.3 A, SOD-523	SOD-523
J1, J2	2		AXK5S80347YG	Panasonic	Receptacle, 0.5mm, 40x2, Gold, SMD	Receptacle, 0.5mm, 40x2, SMD
J3	1		632723300011	Würth Elektronik	Connector, Receptacle, USB Type C, R/A	Connector, Receptacle, USB Type C, R/A, THT/SMT
J4	1		14R-CBSFN-1.5X1.75X0.185	LEADER TECH	SHIELD, 13 POS, THRU	
L1	1	100uH	74404084101	Würth Elektronik	Inductor, Shielded, Ferrite, 100 µH, 1.2 A, 0.377 ohm, SMD	8x8mm
L2, L5	2	3.3	74479775233	Würth	FIXED IND 3.3UH 700MA 200 MOHM	0805
L3, L4	2	1mH	744043102	Würth Elektronik	Inductor, Shielded Drum Core, Metal Composite, 1mH, 0.08 A, 5.4 ohm, SMD	WE-TPC-M2
L6, L11, L24, L25, L27	5				SMT Shielded Tiny Power Inductor WE-TPC, size 5828, 33 uH, 0.9 A	

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L7, L8, L12, L14, L15, L16, L18, L20, L21, L22, L26, L28, L29, L30, L31, L32, L33, L34, L35, L36, L37, L38, L39, L40, L41, L42, L43, L44	28	30 ohm	742792609	Würth Elektronik	Ferrite Bead, 30 ohm @ 100 MHz, 3 A, 0603	0603
L9, L10, L23	3	600 ohm	782633601	Würth Elektronik	Ferrite Bead, 600 ohm @ 100 MHz, 1 A, 0603	0603
L13	1				SMT Shielded Tiny Power Inductor WE-TPC, size 6823, 2.2 uH, 3.4 A	
L17	1				SMT Semi-Shielded Power Inductor WE-LQS, size 5040, 6.8 uH, 2.5 A	
L19	1				SMT Semi-Shielded Power Inductor WE-LQS, size 5040, 15 uH, 2 A	
Q1	1	100V	CSD19538Q3A	Texas Instruments	MOSFET, N-CH, 100 V, 5 A, DNH0008A (VSONP-8)	DNH0008A
Q2	1	150 V	FMMT495TA	Diodes Inc.	Transistor, NPN, 150 V, 1 A, AEC-Q101, SOT-23	SOT-23
Q3	1	200 V	FMMT596TA	Diodes Inc.	Transistor, PNP, 200 V, 0.3 A, SOT-23	SOT-23
R1, R2, R3, R4, R5, R77, R78, R162	8	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
R6, R8, R10, R11, R14, R26, R40, R43, R170, R176, R177, R178, R180, R182	14	4.70k	ERJ-2RKF4701X	Panasonic	RES, 4.70 k, 1%, 0.1 W, 0402	0402
R7	1	6.04k	CRCW04026K04FKED	Vishay-Dale	RES, 6.04 k, 1%, 0.063 W, 0402	0402
R9, R38	2	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200, 1%, 0.1 W, 0603	0603
R12, R13	2	2.20k	ERJ-2RKF2201X	Panasonic	RES, 2.20 k, 1%, 0.1 W, 0402	0402
R15, R16, R17, R24, R25, R47, R48, R55, R63, R64, R67, R68, R69, R70, R73, R75, R79, R80, R81, R92, R94, R99, R109, R110, R113, R120, R127, R135, R136, R146, R147, R148, R154, R157, R158, R165, R171, R173, R181, R188, R191, R242, R245, R246, R247	45	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402

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R18, R19, R20, R21, R22, R23, R27, R28, R29, R30, R31, R32	12	4.70k	RC0201DR-074K7L	Yageo America	RES, 4.70 k, 0.5%, 0.05 W, 0201	0201
R33	1	20.0	RT0603BRD0720RL	Yageo America	RES, 20.0, 0.1%, 0.1 W, 0603	0603
R34	1	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
R35	1	100	CRCW0603100RJNEA	Vishay-Dale	RES, 100, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R36	1	33k	RC0603JR-0733KL	Yageo America	RES, 33 k, 5%, 0.1 W, 0603	0603
R37, R44	2	100k	ERJ-3EKF1003V	Panasonic	RES, 100 k, 1%, 0.1 W, 0603	0603
R39	1	68.0k	RC0603FR-0768KL	Yageo America	RES, 68.0 k, 1%, 0.1 W, 0603	0603
R41	1	50m	WSL2010R0500FEA	Vishay	RES 0.05 OHM 1% 1/2W 2010	2010
R42	1	298k	ERJ-3EKF2943V	Panasonic Electronic Compon	RES SMD 294K OHM 1% 1/10W 0603	0603
R45	1	5.11k	ERA-3AEB5111V	Panasonic Electronic Compon	RES SMD 5.11KOHM 0.1% 1/10W 0603	0603
R46, R53, R62, R66, R91, R108, R124	7	100k	CRCW0402100KJNED	Vishay-Dale	RES, 100 k, 5%, 0.063 W, 0402	0402
R49, R56, R65, R72, R96, R112, R128, R134	8	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R50	1	4.99k	ERJ-2RKF4991X	Panasonic	RES, 4.99 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R51, R58, R76, R98, R105, R115, R131	7	10.0k	ERA-2AEB103X	Panasonic Electronic Compon	RES SMD 10K OHM 0.1% 1/16W 0402	0402
R52	1	130	CRCW0402130RJNED	Vishay-Dale	RES, 130, 5%, 0.063 W, 0402	0402
R54, R71, R126	3	0	5106	Keystone	RES, 0, 1%, 0.5 W, 0805	0805
R57	1	12.4k	CRCW040212K4FKED	Vishay-Dale	RES, 12.4 k, 1%, 0.063 W, 0402	0402
R59, R101, R121, R133	4	160	ERJ-2RKF3300X	Panasonic Electronic Compon	RES SMD 330 OHM 1% 1/10W 0402	0402
R60, R61, R100, R106, R116, R119, R132	7	383k	CRCW0402383KFKED	Vishay-Dale	RES, 383 k, 1%, 0.063 W, 0402	0402
R74	1	21.5k	ERJ-2RKF2152X	Panasonic	RES SMD 21.5K OHM 1% 1/10W 0402	0402
R82, R83, R84, R85, R86, R87, R88, R89, R160	9	18	CRCW040218R0JNED	Vishay-Dale	RES, 18, 5%, 0.063 W, 0402	0402
R90, R153, R161, R174, R238	5	200k	ERJ-2RKF2003X	Panasonic	RES, 200 k, 1%, 0.1 W, 0402	0402
R93	1	44.2k	CRCW040244K2FKED	Vishay-Dale	RES, 44.2 k, 1%, 0.063 W, 0402	0402
R95, R102, R167, R172, R175, R187, R234	7	0	ERJ-1GE0R00C	Panasonic	RES, 0, 5%, 0.05 W, 0201	0201
R97	1	4.99k	ERJ-2RKF1402X	Panasonic	RES SMD 14K OHM 1% 1/10W 0402	0402
R103	1	3.57k	RC0402FR-073K57L	Yageo America	RES, 3.57 k, 1%, 0.063 W, 0402	0402
R104	1	33k	ERJ-2RKF3302X	Panasonic Electronic Compon	RES SMD 33K OHM 1% 1/10W 0402	0402
R107	1	130	ERJ-2GEJ431X	Panasonic Electronic Compon	RES SMD 430 OHM 5% 1/10W 0402	0402
R111	1	2.87k	ERJ-2RKF2871X	Panasonic Electronic Compon	RES, 2.87 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R114	1	7.50k	ERA-2AEB752X	Panasonic	RES, 7.50 k, 0.1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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R117, R122, R125, R130, R149, R150, R155, R156, R169, R189, R192, R193, R194, R196, R197, R198, R199, R216, R217, R218, R219, R220, R221, R222, R223, R224, R225, R226, R227, R228, R240, R243, R244	33	22	RC0201JR-0722RL	Yageo America	RES, 22, 5%, 0.05 W, 0201	0201
R118	1	220	ERJ-2RKF2200X	Panasonic Electronic Compon	RES, 150, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R123	1	22	CRCW040222R0JNED	Vishay-Dale	RES, 22, 5%, 0.063 W, 0402	0402
R129	1	2.49k	ERJ-2RKF2491X	Panasonic	RES SMD 2.49K OHM 1% 1/10W 0402	0402
R137, R163, R200, R201	4	10.0k	RT0603BRD0710KLL	Yageo America	RES, 10.0 k, 0.1%, 0.1 W, 0603	0603
R138	1	301k	ERJ-2RKF3013X	Panasonic Electronic Compon	RES, 301 k, 1%, 0.063 W, 0402	0402
R139	1	344k	ERJ-3EKF3483V	Panasonic Electronic Compon	RES SMD 348K OHM 1% 1/10W 0603	0603
R140	1	32.4k	CRCW060332K4FKEA	Vishay-Dale	RES, 32.4 k, 1%, 0.1 W, 0603	0603
R141	1	620k	ERJ-3GEYJ624V	Panasonic Electronic Compon	RES SMD 620K OHM 5% 1/10W 0603	0603
R142	1	86.6k	ERA-2AEB8662X	Panasonic	RES, 86.6 k, 0.1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R144, R145, R151, R183, R229, R230	6	10	RC0201JR-0710RL	Yageo America	RES, 10, 5%, 0.05 W, 0201	0201
R152, R159, R166	3	0.02	CSR1206FK20L0	Stackpole Electronics Inc	RES, 0.02, 1%, 0.5 W, 1206	1206
R164	1	1.8k	ERJ-2GEJ182X	Panasonic Electronic Compon	RES SMD 1.8K OHM 5% 1/10W 0402	0402
R168	1	909k	CRCW0402909KFKED	Vishay-Dale	RES, 909 k, 1%, 0.063 W, 0402	0402
R179	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R184, R231, R235	3	0	ERJ-1GN0R00C	Panasonic	RES, 0, 5%, 0.05 W, AEC-Q200 Grade 0, 0201	0201
R185, R186, R232, R233, R236, R237	6	10.0k	RC0603F103CS	Samsung Electro-Mechanics	RES SMD 10K OHM 1% 1/20W 0201	0201
R190	1	110k	ERJ-3EKF1103V	Panasonic Electronic Compon	RES SMD 110K OHM 1% 1/10W 0603	0603
R195	1	42.2k	CRCW060342K2FKEA	Vishay-Dale	RES, 42.2 k, 1%, 0.1 W, 0603	0603
R239	1	26.4k	RT0603DRE0726K4L	Yageo	RES SMD 26.4K OHM 1/10W 0603	0603
R241	1	1.00k	ERJ-3EKF1001V	Panasonic	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
S1	1		434153017835	Wurth Elektronik	Switch, SPST, Off-Mom, 0.05 A, 12 VDC, SMD	3.5x2.9mm
U1	1		CYUSB3014-BZXC	Cypress Semiconductor	SuperSpeed USB Controller, BGA-121	10x10mm
U2	1		CAT24M01HU5I-GT3	ON-SEMI	I2C-Compatible, (2-wire) Serial EEPROM, 1-Mbit (131072 x 8), 8MA2	UDFN-8
U3	1		LM3488MMX/NOPB	Texas Instruments	40V Wide Vin Low-Side N-Channel Controller for Switching Regulators, DGK0008A (VSSOP-8)	DGK0008A

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U4, U5, U6, U10, U11, U14, U30	7		TPS54218RTER	Texas Instruments	2.95V to 6V Input, 2A Synchronous Step-Down SWIFT(TM) Converter, RTE0016F (WQFN-16)	RTE0016F
U7	1		CDCE949PWR	Texas Instruments	Programmable 4-PLL VCXO Clock Synthesizer with 2.5V or 3.3V LVCMOS Outputs, PW0024A (TSSOP-24)	PW0024A
U8	1		TPS61178RNWR	Texas Instruments	20 Vout Fully Integration Synchronous Boost Converter with 8 A Switch Current, RNW0013A (VQFN-HR-13)	RNW0013A
U9	1		TPS74201RGRT	Texas Instruments	Single Output LDO, 1.5A, Adj.(0.8 to 3.3V), Any or No Cap, Programmable Soft Start, RGR0020A (VQFN-20)	RGR0020A
U12, U23	2		LP5907SNX-3.3/NOPB	Texas Instruments	250-mA Ultra-Low-Noise, Low-IQ LDO, DQN0004A (X2SON-4)	DQN0004A
U13	1		LP5910-1.2YKAR	Texas Instruments	300-mA Low-Noise, Low-IQ LDO, YKA0004ACAC (DSBGA-4)	YKA0004ACAC
U15	1		TPS7A3901DSCR	Texas Instruments	Dual, 150mA, Wide-Vin, Positive and Negative Low-Dropout (LDO) Voltage Regulator, DSC0010J (WSON-10)	DSC0010J
U16	1		LMZM23601SILR	Texas Instruments	36-V 1-A Step-Down DC-DC Nano Module, SIL0010A (uSIP-10)	SIL0010A
U17	1		LP5907SNX-1.8/NOPB	Texas Instruments	250-mA Ultra-Low-Noise, Low-IQ LDO, DQN0004A (X2SON-4)	DQN0004A
U18, U19	2		TPD2EUSB30DRTR	Texas Instruments	ESD Solution for Super-Speed (6 Gbps) USB 3.0 Interface, 2 Channels, -40 to +85 degC, 3-pin SOT (DRT), Green (Rohs & No Sb/Br)	DRT0003A
U20, U21	2		TPD4E05U06DQAR	Texas Instruments	4-Channel Ultra-Low-Capacitance IEC ESD Protection Diode, DQA0010A (USON-10)	DQA0010A
U22	1		HD3SS3220IRNHR	Texas Instruments	USB Type-C DRP Port Controller with SuperSpeed 2:1 MUX, RNH0030A (WQFN-30)	RNH0030A
U24, U25, U26	3		INA231AIYFFR	Texas Instruments	28-V, Bi-Directional, Zero-Drift, Low-/High-Side, I2C Out Current/Power Monitor w/ Alert in WCSP, YFF0012AKAD (DSBGA-12)	YFF0012AKAD
U27	1		LMV112SD/NOPB	Texas Instruments	40 MHz Dual Clock Buffer, NGQ0008A (WSON-8)	NGQ0008A
U28, U29, U31	3		SN74LVC1G11DRYR	Texas Instruments	Single 3-Input Positive-AND Gate, DRY0006A (USON-6)	DRY0006A
Y1	1		ECS-192-18-33-JEM-TR	ECS Inc.	Crystal, 19.2 MHz, 20 ppm, 18 pF, SMD	3.2x2.5mm

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