

Eval Board Name	IST-A39
Revision	2.1

CreationDate	Proto Rev	Released
11/16/2015	1.00	0

NI	Quantity	Reference	Value	Rating	Voltage	Tolerance	Type	PCB Footprint	ManufacturerPN	Manufacturer
	1	BH1	20mm BATTERY HOLDER				BATTERY HOLDER	20MM_COIN_BATTERY HOLDER_SMD	BAT-HLD-001	LINX TECHNOLOGIES INC.
	1	BH3	Mylar				BATTERY_ISOLATOR		BI-2032	Memory Protection Devices
	1	BT1	3.0V				BATTERY		CR2032	Panasonic - BSG
	2	C1 C2	1.0pF		50V	±0.25pF	C0G	C0402	GRM1555C1H1R0CA01D	MuRata
	3	C11 C12 C15	1uF		10V	±10%	X5R	C0402	GRM155R61A105KE15J	MuRata
	2	C13 C42	4.7uF		6.3V	±10%	X5R	C0603	C0603X5R6R3-475K	Venkel
	4	C17 C21 C22 C40	0.01uF		50V	±10%	X7R	C0402 C0402L	GRM155R71H103KA88D	MuRata
	1	C18	1.0uF		6.3V	±10%	X5R	C0402 C0402L	C0402X5R6R3-105K	Venkel
	1	C19	2.2uF		10V	±10%	X7R	C0402	GRM155R71A225KE15D	MuRata
	3	C20 C23 C41	8pF		25V	±0.25pF	C0G	C0402	C0402C0G250-8R0CNE	Venkel
	1	C24	0.47uF		10V	±10%	X5R	C0402	C0402X5R100-474K	Venkel
	1	C29	10uF		16V	±20%	TANT	C3216	T491A106M016AT	Kemet
	1	C3	1.5pF		50V	±0.1pF	C0G	C0402	GRM1555C1H1R5BA01	MuRata
	1	C38	100uF		10V	±10%	TANT	C7343D	T491D107K010AT	Kemet
	2	C4 C5	7.0pF		50V	±0.5pF	C0G	C0402	GJM1555C1H7R0DB01	MuRata
	10	C6 C7 C8 C9 C10 C14 C16 C30 C36 C39	0.1uF		10V	±10%	X7R	C0402 C0402L	C0402X7R100-104K	Venkel
	2	D1 D2	GREEN	20mA	3.3V			LED-1206-BOT	597-6301-607F	Dialight
	2	D12 D13	STPS140Z	1.0A	40V		Schottky	SOD-123	STPS140Z	ST Semiconductor
	1	D3	RED	30mA				LED-0603	SML-LX0603SIW	LUMEX INC
	1	D5	SP0503BAHT	300mW	20V		TVS	SOT143-AKKK SOT143	SP0503BAHTG	Littlefuse
	6	D6 D7 D8 D9 D10	CM1213A-01SO	NA	6V	-40 to 85C	ESD DIODE	SOT-23	CM1213A-01SO	ON SEMICONDUCTOR
	1	J1	HEADER 5X2				Header	CONN2X5-FTS	FTS-105-01-F-DV	Samtec
	1	J10	COVER					N/A	ISTA39-ASC	OutFab
	1	J11	COVER					N/A	R52-80401-W	Leviton
	1	J12	STICKER					N/A	No. 788625	Sticker Giant
	1	J8	USB-MICRO-B-RA				USB	MICRO-USB-SMT-WURTH	629105136821	WURTH
	1	L1	4.7nH	0.28A	none	±2%	UnShielded	L0603 IND0603	LQW18AN4N7D00	Murata
	1	L2	2.9nH	750mA		±0.1nH	UnShielded	L0402 IND0402	LQW15AN2N9B00	Murata
	2	NUT1 NUT2	6-32				NUT		HNSS 632	B&F FASTENER
	6	R15 R16 R32 R33 R36 R37	0	1A			ThickFilm	R0402 R0402L	CR0402-16W-000	Venkel
	4	R26 R27 R28 R31	10K	1/16W		±5%	ThickFilm	R0402	CR0402-16W-103J	Venkel
	1	R3	10	1/16W		±1%	ThickFilm	R0402	CR0402-16W-10R0F	Venkel
	2	R4 R30	1.0	1/16W		±1%	ThickFilm	R0402	CR0402-16W-1R00F	Venkel
	5	R7 R9 R10 R11	1K	1/16W		±1%	ThickFilm	R0402	CR0402-16W-1001F	Venkel
	1	S1	SW PUSHBUTTON	50mA	12Vdc		Tactile	SW-PB-TL1015	TL1015AF160QG	E-SWITCH
	1	S3	SW PUSHBUTTON	50mA	12VDC		Tactile	SW-PB-TL3330	TL3330AF260QG	E-SWITCH

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	1	SW1	SW_SLIDE_2POS	0.2A @ 12VDC			SLIDE	SW-CL-SB-12A-1X	CL-SB-12A-12	Copal
	3	TP1 TP3 TP4	TESTPOINT				PC TEST POINT, MINIATURE, SMT	R0805 TP_MINI_UNSHORT TP_MINI_SHORT	5015	Keystone
	1	U1	EM3587				MCU	QFN48N7X7P0.5E5.35	EM3587-RTR	SiLabs
	1	U10	EFM8SB1				MCU	QFN20N3X3P0.5	EFM8SB10F8G-A-QFN20	SiLabs
	1	U3	24MHz					XTAL4N3.2X2.5-FA238 XTAL4N-MULTI	TZ1203B	Taisaw
	1	U8	CP2103		+5.8V		MCU	QFN28M5X5P0.5	CP2103-GM	SiLabs
	1	U9	1:1				CERAMIC	BAL6N2.0X1.25P0.65	2450BL15B100E	JOHANSON

Not Installed Components

NI	Quantity	Reference	Value	Rating	Voltage	Tolerance	Type	PCB_Footprint	ManufacturerPN	Manufacturer
NI	1	J9	DF13A- 2P-1.25H	0.1A	100V		MINI	CONN1X2-DF13A	DF13A- 2P-1.25H	HIROSE
NI	1	Q2	FDV301N	220mA	25V		N-CHNL	SOT23-GSD	FDV301N	Fairchild
NI	1	R2	47K	1/16W		±1%	ThickFilm	R0402	CR0402-16W-4702F	Venkel
NI	2	R34 R35	0	1A			ThickFilm	R0402 R0402L	CR0402-16W-000	Venkel
NI	1	U4	MX25L4006EM1K-12G				FLASH	SO8N6.0P1.27	MX25L4006EM1K-12G	MACRONIX