

Eval Board Name	SI82AX-CX_SSO8_EVB-Si82B41ACE
Revision	1.0

CreationDate	Proto Rev	Released
9/26/2024	4.00	0

End product must be RoHS compliant

NI	Quantity	Reference	Value	Rating	Voltage	Tolerance	Type	PCB Footprint	ManufacturerPN	Manufacturer
		2 C1 C15	68pF	Y2	250V	±10%	Y2	C1808	GA342D1XGF680JY02L	MuRata
		1 C12	1nF		50V	±1%	C0G	C0805	C0805C0G500-102F	Venkel
		C13 C16 C17 C21								
		5 C23	0.1uF		50V	±10%	X7R	C0603	C0603X7R500-104K	Venkel
		1 C14	10uF		50V	±10%	X5R	C0805	GRM21BR61H106KE43L	Murata
		1 C18	1uF		10V	±10%	X7R	C0603	C0603X7R100-105K	Venkel
		1 C19	0.1uF		10V	±10%	X7R	C0402 C0402L	C0402X7R100-104K	Venkel
		1 C2	1uF		25V	±10%	X7R	C0603 C0603L	GCM188R71E105KA49	MuRata
		2 C20 C22	1uF		50V	±10%	X7R	C0805	CL21B105KBFNNNE	Samsung
		3 C3 C5 C7	0.1uF		25V	±10%	X7R	C0603	C0603X7R250-104K	Venkel
		1 D1	ES1B	1.0A	100V		Fast	DO-214AC	ES1B	Diodes Inc.
		1 D2	US1K	1.0A	800V		Switch, Ultra Fast	DO-214AC	US1K-13-F	Diodes Inc.
		1 D3	5.6V	500mW	5.6V	5%	Zener	SOD-123	SZMMSZ5232BT1G	On Semi
		2 D4 D5	GREEN	20mA				LED-0603	LTST-C193TGKT-5A	LITE-ON TECHNOLOGY CORP
		1 D6	10V	500mW	10V	5%	Zener	SOD-123	MMSZ4697T1G	On Semi
		1 J1	3X1 Header				Header	CONN1X3-TSM	TSM-103-01-L-SV	Samtec
		2 J2 J3	CONN TRBLK 2				TERM BLK	CON1X2-1725656	1725656	PHOENIX CONTACT
		3 JP1 JP2 JP6	HEADER 1X2				Header	CONN1X2	TSW-102-07-T-S	Samtec
		2 JP3 JP5	HEADER 1x3				Header	CONN-1X3	TSW-103-07-T-S	Samtec
		1 JP4	CONN TRBLK 3				TERM BLK	CON1X3-1725669	1725669	PHOENIX CONTACT
		4 JS1 JS2 JS5 JS6	Jumper Shunt				Shunt	SHUNT	SNT-100-BK-T	Samtec
		1 LB1	OPN: Si82B41ACE-EVB				POLYIMIDE, WHITE	PTL-14-717	LABEL-Si82B41ACE-EVB	Skyworks
		1 M1	NTR4171PT1G	-3.5A	-30V		P-CHNL	SOT23-GSD	NTR4171PT1G	ON Semiconductor
		1 M2	FDN5618P	1.25A	60V		P-CHNL	SOT23-GSD	FDN5618P	Fairchild
		MH1 MH2 MH3								
		4 MH4	SCREW/STANDOFF				HDW	MH-125	NSS-4-4-01/2401	VARIOUS
		1 PCB1	Si82Ax-Cx SSO8 EVB REV 1.0				BARE PCB	N/A	Si82Ax-Cx SSO8 EVB REV 1.0	Skyworks
		4 R1 R6 R18 R19	0	1A			ThickFilm	R0603 R0603L	CR0603-16W-000	Venkel
		2 R13 R20	0	2A			ThickFilm	R0805	CR0805-10W-000	Venkel
		1 R15	4.7	1/10W		±5%	ThickFilm	R0805	CR0805-10W-4R7J	Venkel
		1 R21	1.2	1/10W		±5%	ThickFilm	R0805	CR0805-10W-1R2J	Venkel
		1 R23	0.1	1/8W		±1%	ThickFilm	R0603	LCR0603-R100F	Venkel
		1 R24	0.5	1/4W	500V	±1%	ThickFilm	R0805	LCR0805-R500F	Venkel
		1 R29	300	1/16W		±5%	ThickFilm	R0603 R0603L	CR0603-16W-301J	Venkel
		1 R3	100K	1/10W		±5%	ThickFilm	R0603	CR0603-10W-104J	Venkel
		1 R30	976	1/4W		±1%	ThickFilm	R1206	CR1206-4W-9760F	Venkel
		1 R31	2.2K	1/4W		±5%	ThickFilm	R1206	CR1206-4W-222JT	Venkel
		1 R32	887	1W		±1%	ThickFilm	R2512	ERJ-1TNF8870U	Panasonic Electronic Components
		2 R5 R16	10K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-1002F	Venkel
		1 R8	1K	1/10W		±5%	ThickFilm	R0603	CR0603-10W-1001J	Venkel
		2 R9 R14	15.0	1/16W		±1%	ThickFilm	R0603	CR0603-16W-15R0F	Venkel
		1 S1	SW PUSHBUTTON	50mA	12VDC		Tactile	SW-PB-TL3302	TL3302AF180QJ	E-SWITCH

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	16	TP1 TP2 TP3 TP4 TP6 TP7 TP9 TP10 TP12 TP13 TP14 TP16 TP18 TP20 TP21 TP22	TESTPOINT				TESTPOINT	TP_MINIATURE_SMT	5019	Keystone
	2	TP11 TP17	BLACK				Loop	TESTPOINT	151-203-RC	Kobiconn
	1	TP19	WHITE				Loop	TESTPOINT	151-201-RC	Kobiconn
	2	TP8 TP15	RED				Loop	TESTPOINT	151-207-RC	Kobiconn
	1	U1	Si82B41ACE	6000 VRMS	30V		ISOdriever	SO8N11.5P1.27	Si82B41ACE-IS4	Skyworks
	1	U2	SN74LVC2G14DBVR		5V		Inverter	SOT6N2.8P0.95	SN74LVC2G14DBV	TI

Not Installed Components

NI	Quantity	Reference	Value	Rating	Voltage	Tolerance	Type	PCB_Footprint	ManufacturerPN	Manufacturer
NI	2	C4 C11	10uF		50V	±10%	X5R	C0805	GRM21BR61H106KE43L	Murata
NI	2	C6 C10	0.1uF		50V	±10%	X7R	C0603	C0603X7R500-104K	Venkel
NI	2	C8 C9	0.01uF		25V	±10%	X7R	C0402	C0402X7R250-103K	Venkel
NI	2	JS3 JS4	Jumper Shunt				Shunt	SHUNT	SNT-100-BK-T	Samtec
NI	4	R2 R12 R22 R28	0	1A			ThickFilm	R0603 R0603L	CR0603-16W-000	Venkel
NI	2	R25 R27	10K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-1002F	Venkel
NI	1	R26	20K	1/4W		20%	TRIM	POT-PVG3A	PVG3A203C01R00	MuRata
NI	6	R4 R7 R10 R11 R17 R33	0	2A			ThickFilm	R0805	CR0805-10W-000	Venkel
NI	1	TP5	TESTPOINT				TESTPOINT	TP_MINIATURE_SMT	5019	Keystone