

Eval Board Name	SI82AX-CX_NB8_EVB-Si82B30ABC
Revision	1.0

CreationDate	Proto Rev	Released
12/10/2024	2.00	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
	5	C13 C16 C17 C21								
	1	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	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
	5	JS1 JS2 JS3 JS5 JS6	Jumper Shunt				Shunt	SHUNT	SNT-100-BK-T	Samtec
	1	LB1	OPN: Si82B30ABC-EVB				POLYIMIDE, WHITE	PTL-14-717	LABEL-Si82B30ABC-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
	4	MH1 MH2 MH3 MH4	SCREW/STANDOFF				HDW	MH-125	NSS-4-4-01/2401	VARIOUS
	1	PCB1	Si82Ax-Cx NB8 EVB REV 1.0				BARE PCB	N/A	Si82Ax-Cx NB8 EVB REV 1.0	Skyworks
	3	R1 R6 R19	0	1A			ThickFilm	R0603 R0603L	CR0603-16W-000	Venkel
	3	R11 R20 R33	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 R25	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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		TP1 TP2 TP3 TP4 TP6 TP7 TP9 TP10 TP12 TP13 TP14 TP16 TP18 TP20								
	16	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	Si82B30ABC	3750 VRMS	30V		ISOdriVer	SO8N6.0P1.27	Si82B30ABC-IS	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	1	D1	ES1B	1.0A	100V		Fast	DO-214AC	ES1B	Diodes Inc.
NI	1	JS4	Jumper Shunt				Shunt	SHUNT	SNT-100-BK-T	Samtec
NI	2	R16 R27	10K	1/16W		±1%	ThickFilm	R0603	CR0603-16W-1002F	Venkel
NI	5	R2 R12 R18 R22 R28	0	1A			ThickFilm	R0603 R0603L	CR0603-16W-000	Venkel
NI	1	R26	20K	1/4W		20%	TRIM	POT-PVG3A	PVG3A203C01R00	MuRata
NI	5	R4 R7 R10 R13 R17	0	2A			ThickFilm	R0805	CR0805-10W-000	Venkel
NI	1	TP5	TESTPOINT				TESTPOINT	TP_MINIATURE_SMT	5019	Keystone