

Silicon Labs Isolator Products Selector Guide



ISOpro Si84xx - 2.5kV Digital Isolators

2.5kVrms Isolation, Vdd= 2.7 - 5.5V, Temp range= -40 to 125C												
Isolated Channels	Ordering Part Number	Forward Data Channels	Reverse Data Channels	Maximum Data Rate (Mbps)	Default Output State	Enable Control*	Package Type			1K Price (\$USD)	Legacy Part Equivalent	ADI Equivalent
							NB SOIC-8	WB SOIC-16	NB SOIC-16			
1	Si8410AB-C-IS	1	0	1	L	•				\$0.78	Si8410-A-IS	ADUM1100
	Si8410BB-C-IS	1	0	150	L	•				\$1.15	Si8410-B/C-IS	ADUM1100
2	Si8420AB-C-IS	2	0	1	L	•				\$0.81	Si8420-A-IS	ADUM1200, 1210
	Si8420BB-C-IS	2	0	150	L	•				\$1.17	Si8420-B/C-IS	ADUM1200, 1210
	Si8421AB-C-IS	1	1	1	L	•				\$0.81	Si8421-A-IS	ADUM1201*
	Si8421BB-C-IS	1	1	150	L	•				\$1.17	Si8421-B/C-IS	ADUM1201*
3	Si8430AB-C-IS(1)**	3	0	1	L	•		•	•	\$1.06	Si8430-A-IS	ADUM1300
	Si8430BB-C-IS(1)**	3	0	150	L	•		•	•	\$1.64	Si8430-B/C-IS	ADUM1300
	Si8431AB-C-IS(1)**	2	1	1	L	•		•	•	\$1.06	Si8431-A-IS	ADUM1301
	Si8431BB-C-IS(1)**	2	1	150	L	•		•	•	\$1.64	Si8431-B/C-IS	ADUM1301
	Si8435BB-C-IS(1)**	3	0	150	L	•		•	•	\$1.64	Si8435-B-IS	ADUM1310**
4	Si8440AB-C-IS(1)**	4	0	1	L	•		•	•	\$1.35	Si8440-A-IS	ADUM1400
	Si8440BB-C-IS(1)**	4	0	150	L	•		•	•	\$1.99	Si8440-B/C-IS	ADUM1400
	Si8441AB-C-IS(1)**	3	1	1	L	•		•	•	\$1.35	Si8441-A-IS	ADUM1401
	Si8441BB-C-IS(1)**	3	1	150	L	•		•	•	\$1.99	Si8441-B/C-IS	ADUM1401
	Si8442AB-C-IS(1)**	2	2	1	L	•		•	•	\$1.35	Si8442-A-IS	ADUM1402
	Si8442BB-C-IS(1)**	2	2	150	L	•		•	•	\$1.99	Si8442-B/C-IS	ADUM1402
	Si8445BB-C-IS(1)**	4	0	150	L	•		•	•	\$1.99	Si8445-B-IS	ADUM1410**
5	Si8450AB-A-IS1	5	0	1	L	•				\$1.47	N/A	N/A
	Si8450BB-A-IS1	5	0	150	L	•				\$2.16	N/A	N/A
	Si8451AB-A-IS1	4	1	1	L	•				\$1.47	N/A	N/A
	Si8451BB-A-IS1	4	1	150	L	•				\$2.16	N/A	N/A
	Si8452AB-A-IS1	3	2	1	L	•				\$1.47	N/A	N/A
	Si8452BB-A-IS1	3	2	150	L	•				\$2.16	N/A	N/A
	Si8455BB-A-IS1	5	0	150	L	•				\$2.16	N/A	ADUM1510
6	Si8460AB-A-IS1	6	0	1	L					\$1.64	N/A	N/A
	Si8460BB-A-IS1	6	0	150	L					\$2.41	N/A	N/A
	Si8461AB-A-IS1	5	1	1	L					\$1.64	N/A	N/A
	Si8461BB-A-IS1	5	1	150	L					\$2.41	N/A	N/A
	Si8462AB-A-IS1	4	2	1	L					\$1.64	N/A	N/A
	Si8462BB-A-IS1	4	2	150	L					\$2.41	N/A	N/A
	Si8463AB-A-IS1	3	3	1	L					\$1.64	N/A	N/A
	Si8463BB-A-IS1	3	3	150	L					\$2.41	N/A	N/A

* Outputs are Lo when disabled

** Available in Wide Body (-IS) and Narrow Body (-IS1) packages

* Channels direction reversed. Si8422 will be pin compatible (sampling July)

** Programmable output state function not offered on Si84xx

ISOpro Si84xx - 1.0kV Digital Isolators



1.0kVrms Isolation, Vdd= 2.7 - 5.5V, Temp range= -40 to 125C											
Isolated Channels	Ordering Part Number	Forward Data Channels	Reverse Data Channels	Maximum Data Rate (Mbps)	Default Output State	Enable Control*	Package Type			1K Price (\$USD)	Legacy Part Equivalent
							NB SOIC-8	WB SOIC-16	NB SOIC-16		
4	Si8440AA-C-IS1	4	0	1	L	•			•	\$1.30	Si8440-A-IS
	Si8440BA-C-IS1	4	0	150	L	•			•	\$1.92	Si8440-B/C-IS
	Si8441AA-C-IS1	3	1	1	L	•			•	\$1.30	Si8441-A-IS
	Si8441BA-C-IS1	3	1	150	L	•			•	\$1.92	Si8441-B/C-IS
	Si8442AA-C-IS1	2	2	1	L	•			•	\$1.30	Si8442-A-IS
	Si8442BA-C-IS1	2	2	150	L	•			•	\$1.92	Si8442-B/C-IS
	Si8445BA-C-IS1	4	0	150	L	•			•	\$1.92	Si8445-B-IS
5	Si8450AA-A-IS1	5	0	1	L	•			•	\$1.47	N/A
	Si8450BA-A-IS1	5	0	150	L	•			•	\$2.16	N/A
	Si8451AA-A-IS1	4	1	1	L	•			•	\$1.47	N/A
	Si8451BA-A-IS1	4	1	150	L	•			•	\$2.16	N/A
	Si8452AA-A-IS1	3	2	1	L	•			•	\$1.47	N/A
	Si8452BA-A-IS1	3	2	150	L	•			•	\$2.16	N/A
	Si8455BA-A-IS1	5	0	150	L	•			•	\$2.16	N/A
6	Si8460AA-A-IS1	6	0	1	L	•			•	\$1.64	N/A
	Si8460BA-A-IS1	6	0	150	L	•			•	\$2.41	N/A
	Si8461AA-A-IS1	5	1	1	L	•			•	\$1.64	N/A
	Si8461BA-A-IS1	5	1	150	L	•			•	\$2.41	N/A
	Si8462AA-A-IS1	4	2	1	L	•			•	\$1.64	N/A
	Si8462BA-A-IS1	4	2	150	L	•			•	\$2.41	N/A
	Si8463AA-A-IS1	3	3	1	L	•			•	\$1.64	N/A
	Si8463BA-A-IS1	3	3	150	L	•			•	\$2.41	N/A

* Outputs are Lo when disabled

ISOpro Si840x - Bidirectional I²C® Compatible Digital Isolators

Vdd= 2.7 - 5.5V, Temp range= -40 to 125C											
Isolated Channels	Ordering Part Number	Bidirectional Serial Data	Bidirectional Serial Clock	Data Channels (Fwd/Rev)	Maximum I ² C® Clock Rate (MHz)	Isolation Rating	Package Type		1K Price (\$USD)	Legacy Part Equivalent	ADI Equivalent
							NB SOIC-8	NB SOIC-16			
2	Si8400AA-A-IS	•	•	0/0	1.7	1.0 kVrms	•		\$2.36	N/A	ADUM1250/1251*
	Si8400AB-A-IS	•	•	0/0	1.7	2.5 kVrms	•		\$2.48	N/A	ADUM1250/1251*
4	Si8405AA-A-IS1	•	•	1/1	1.7	1.0 kVrms		•	\$2.63	N/A	N/A
	Si8405AB-A-IS1	•	•	1/1	1.7	2.5 kVrms		•	\$2.82	N/A	N/A

* ADUM1251 has unidirectional clock

ISOdrivers Si823x - Isolated Gate Drivers

Temp Range= -40 to 125C											
Isolated Channels	Ordering Part Number	Inputs	Output Configuration	Peak Output	UVLO Voltage	Isolation Rating	Package Type		1K Price (\$USD)	Legacy Part Equivalent	
							WB SOIC-16	5x5 LGA-14			
1	Si8231BB-B-IS*	PWM	High Side/Low Side	0.5A	8V	2.5kVrms	•			Si8231-A-IS	
	Si8234BB-C-IS*	PWM	High Side/Low Side	4.0A	8V	2.5kVrms	•			Si8234-B-IS	
	Si8234BB-C-IM*	PWM	High Side/Low Side	4.0A	8V	2.5kVrms		•		Si8234-B-IM	
2	Si8230BB-B-IS*	VIA, VIB	High Side/Low Side	0.5A	8V	2.5kVrms	•			Si8230-A-IS	
	Si8232BB-B-IS*	VIA, VIB	Dual low side	0.5A	8V	2.5kVrms	•			Si8232-A-IS	
	Si8233BB-C-IS*	VIA, VIB	High Side/Low Side	4.0A	8V	2.5kVrms	•			Si8233-B-IS	
	Si8235BB-C-IS*	VIA, VIB	Dual low side	4.0A	8V	2.5kVrms	•			Si8235-B-IS	
	Si8233BB-C-IM*	VIA, VIB	High Side/Low Side	4.0A	8V	2.5kVrms		•		Si8233-B-IM	
	Si8235BB-C-IM*	VIA, VIB	Dual low side	4.0A	8V	2.5kVrms		•		Si8235-B-IM	
	Si8236BB-C-IM*	VIA, VIB	Dual low side	4.0A	8V	2.5kVrms		•		Si8236-B-IM	

* Samples available in July