

Product Name: ZX106-QSH090-ST Samtec Breakout Adapter

Product Description: Samtec QSH090 90pins x 2 rows, 180 pin breakout adapter - Single ended / differential signaling applications. All Samtec QSH connectors are accessible via header's pin

- Designed in 6 layers PCBoard with no vias on any signal traces, improved signal integrity and crosstalk.
- All traces are designed with 50 Ω Ohms trace impedance.
- GND test point for direct connection to GND plane as well as Samtec connector's center GND stub.

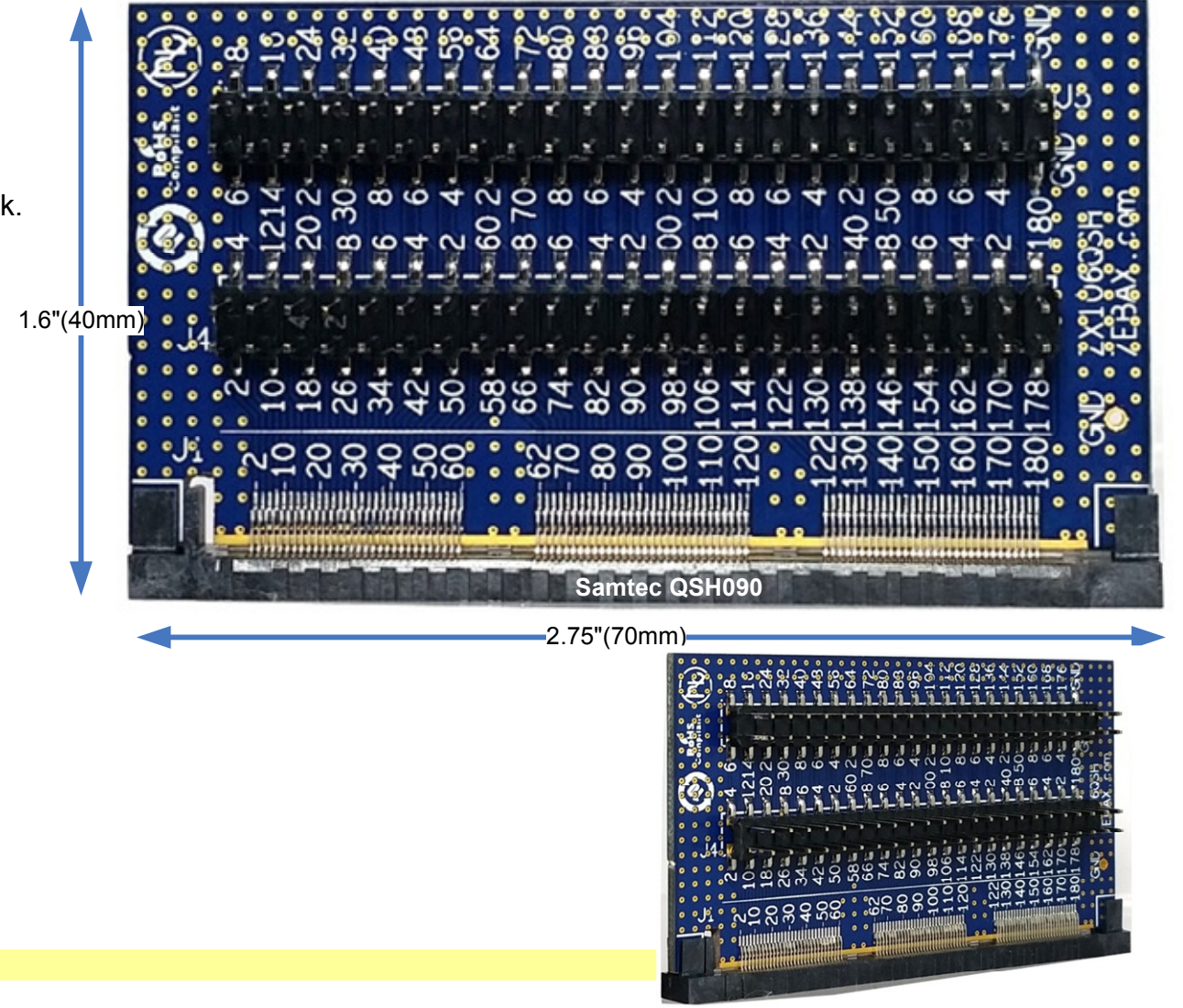
Application: Bringup, testing, emulation, development, modular design evaluations

Mates with : Samtec QTH090 QTH090(DP) - Also mates with ANY three banks of QTH120 QTH090(DP) HFHM2 HQCD HQDP
Compatible with – differential Pair (DP), unused signal can be left unconnected or Grounded for improved noise immunity.

ZX106-QSH090 may be used for emulating Altera's development board due to use of onboard Socket (QSH) connector on ZX106QSH.

Pitch: 0.50mm (0.0197") High Speed connector

Headers: 0.1" (2.54mm) center, 0.025" SQ with 0.22" (5.58mm) post height



ZX106QSH090 pin configuration

Bottom	Headers	J3	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160	168	176	GND
			6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142	150	158	166	174	GND
		J2	4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140	148	156	164	172	180
			2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138	146	154	162	170	178
Top	Headers	J5	7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143	151	159	167	175	GND
			5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141	149	157	165	173	GND
		J4	3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139	147	155	163	171	179
			1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137	145	153	161	169	177

Header pin numbers refer to the connected SAMTEC connector pin

Note
ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated.

ZEBAX TECHNOLOGIES SANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 WWW.ZEBAX.COM		
SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT	ASSEMBLY DRAWING	
	ITEM: ZX106-QSH090-ST	
DESCRIPTION: Samtec breakout adapter QSH 090		
CHECKED: M. MARINA	DRAWN: SLAVIK	REVISION: 1.0 SHEET: 1 OF 1

Notice
ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." ZEBAX MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NO INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.
Information furnished is believed to be accurate and reliable. However, Zebax Technologies assumes no responsibility for the consequences of use of such information or for any infringement of patents or other rights of third parties that may result from its use. Specifications mentioned in this publication are subject to change without notice. This publication replaces all other information previously supplied. Zebax Technologies products are not authorized as in life support devices or systems.