

Product Name: ZX106-QTH090-ST Samtec Breakout Adapter HSMC

Product Description: Samtec QTH090 90pins x 2 rows, 180 pin breakout adapter - Single ended / differential signaling applications. All Samtec QTH connectors are accessible via header pins.

- 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.

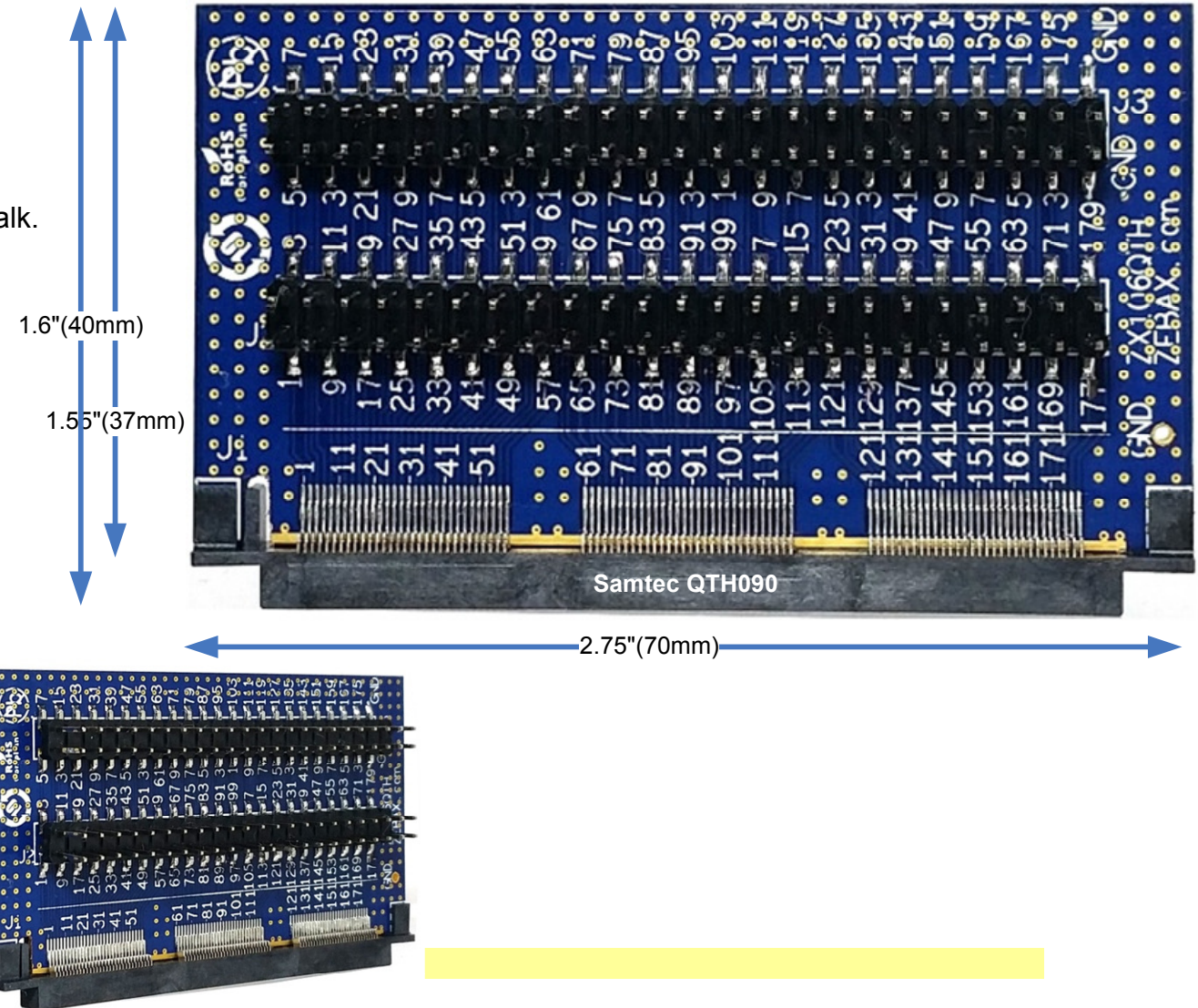
Application: Bringup, testing, emulation, development, modular design evaluations

Mates with : Samtec QSH090 QSH090(DP) Also mates with ANY three banks of QSH120 QSH120(DP) HFHM2 HQCD HQDP
Compatible with – differential Pair (DP), unused signal can be left unconnected or Grounded for improved noise immunity.

Fully compatible with Altera Cyclone III 3C120 Development board. ZX106-QTH supports Altera High Speed Mezzanine HSMC interface
ASP-122953-01 ASP-122952-01

Pitch: 0.50mm (0.0197") High Speed connector

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



ZX106QTH090 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.

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SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT	ASSEMBLY DRAWING	
	ITEM: ZX106-QTH090-ST	
DESCRIPTION: Samtec breakout adapter HSMC QTH 090		
CHECKED: M. MARINA	DRAWN: SLAVIK	REVISION: 1.0 SHEET: 1 OF 1

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