Product Name: **ZX107-QSH-QTH090 Samtec Breakout Adapter HSMC**

Product Description: 90pins x 2 rows, 180 pin Samtec breakout adapter - Single ended. Offering **both QSH QTH** connectors on a single breakout adapter. Designed in 4 layer PCBoard with no vias on any signal traces, improved signal integrity and crosstalk.

GND test point for direct connection.

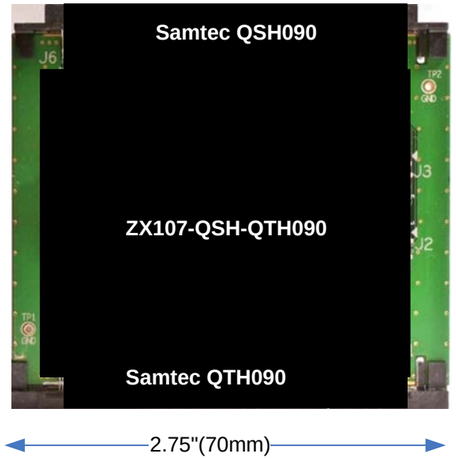
Application: Bringup, testing, emulation, development, modular design evaluations

Mates with : Samtec QSH090 QTH090 QSH060(DP) QTH080(DP) - Also mates with ANY three banks of QSH120 QTH120 : QSH080(DP) QTH080(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 0.32" (8.13mm) post height



NOTE: Pin 1 of the Plug (Header) is connected to Pin 1 of Socket (Receptacle), enabling target board debugging by using ZX107 in between Host and Target device..

ZX107-QSHQTH090 pin configuration

Top	QSH	J1	180 .. 10, 8, 6, 4, 2														
Bottom			179, .. 9, 7, 5, 3, 1														
Layer																	
Bottom	Headers	J3	GND	176	168	160	152	144	136	128	120	112	104	96	88	80	72	64
			GND	174	166	158	150	142	134	126	118	110	102	94	86	78	70	62
		J2	180	172	164	156	148	140	132	124	116	108	100	92	84	76	68	60
			178	170	162	154	146	138	130	122	114	106	98	90	82	74	66	58
Top	Headers	J5	7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127
			5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125
		J4	3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123
			1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121
TOP	QTH	J1	1, 3, 5, 7, 9, .. 179															
BOTTOM			2, 4, 6, 8, 10, .. 180															

Marked **red** pin on J2, J3, J4, J5 are Pin #1 of the associated header.
Matching QSH & QTh pin 1 polarity

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: ZX107-QSH-QTH090

DESCRIPTION:Samtec breakout adapter HSMC QSH QTH 090

CHECKED: M. MARINA
DRAWN: SLAVIK
REVISSION: 1.0
SHEET: 1 OF 1