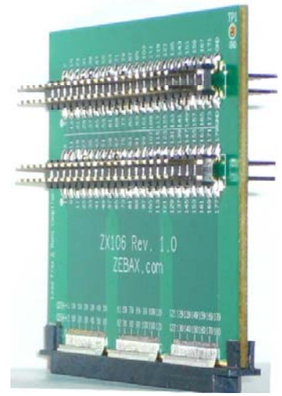
Product Name: **ZX106-QTH090 Samtec Breakout Adapter HSMC**

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

GND test point for direct connection.



2.375"(60mm)

2.75"(70mm)

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

Mates with : Samtec QSH090 QSH060(DP) Also mates with ANY three banks of QSH120 QSH080(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

ZX106-QTH090 pin configuration

Layer																								
Bottom	Headers	J3	GND	176	168	160	152	144	136	128	120	112	104	96	88	80	72	64	56	48	40	16	8	16	8
			GND	174	166	158	150	142	134	126	118	110	102	94	86	78	70	62	54	46	38	14	6	14	6
		J2	180	172	164	156	148	140	132	124	116	108	100	92	84	76	68	60	52	44	36	12	4	12	4
			178	170	162	154	146	138	130	122	114	106	98	90	82	74	66	58	50	42	34	10	2	10	2
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
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.

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

DESCRIPTION: Samtec breakout adapter HSMC QTH 090

CHECKED: M. MARINA

DRAWN: SLAVIK

REVISSION: 1.0

SHEET: 1 OF 1

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