

Product Name: ZX135-BSH-BTH120 Samtec Breakout Adapter

Product Description: 120x2, 240 pins Samtec breakout adapter supporting Samtec's Basic Blade & Beam Header BTH and BSH connector series.

- Designed in 4 layer PCBoard
- No via on any signal traces
- Improved signal integrity and crosstalk.
- Matching connector's 50Ω impedance – Reference plane impedance 50Ω for DC to 8GHz bandwidth applications

GND test point for easy access – GND Test point must be connected to system GND
 GND test points is tied to 2 inner layer GND planes

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

Mates with : Samtec BSH120 , BTH120

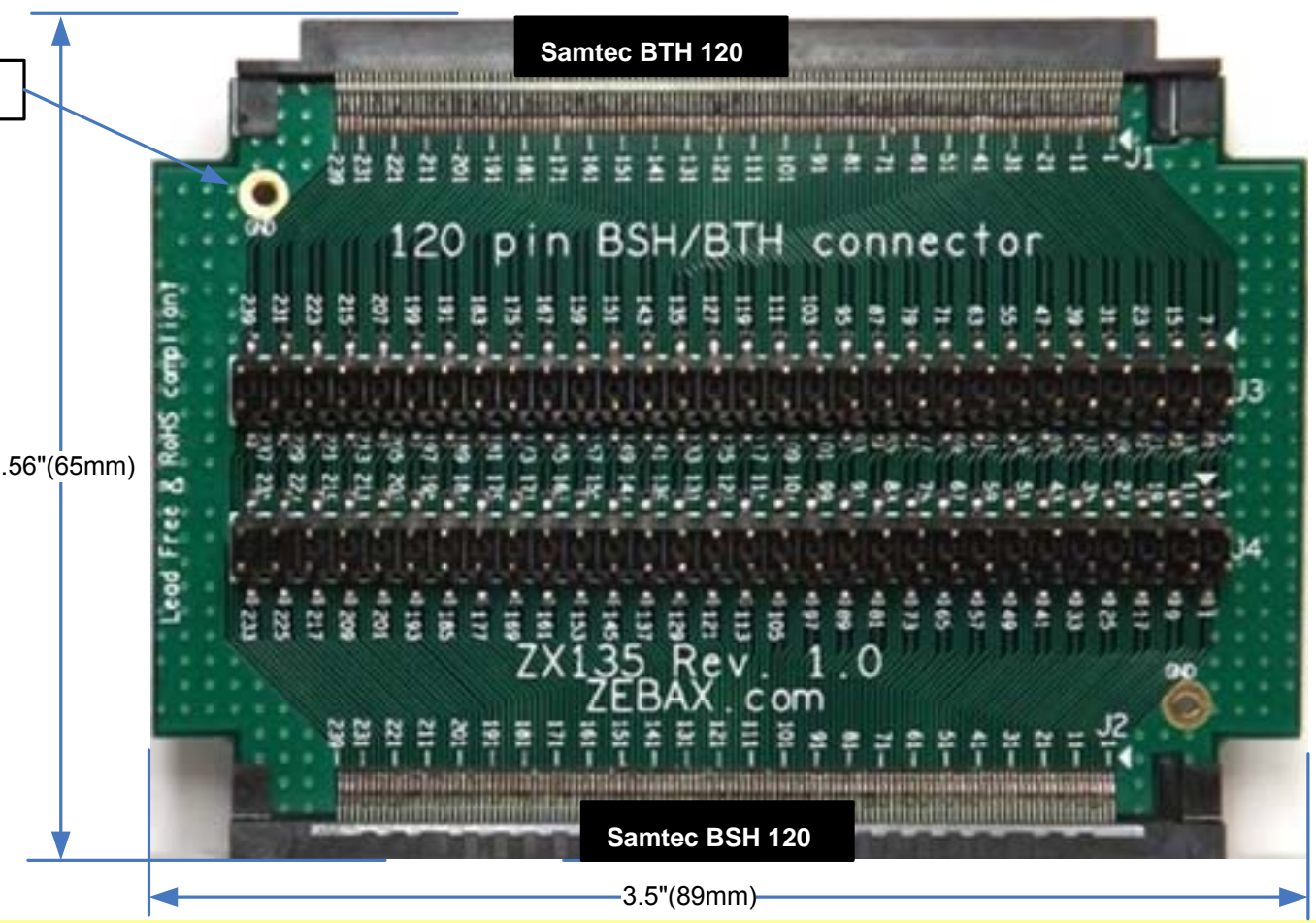
Pitch: 0.50mm (0.0197") High Speed connector

Headers: 0.1" (2.54mm) center, 0.025" (0.64mm) SQ with 0.23" (5.6mm) post height



Note 2

2.56"(65mm)



ZX135-BTH-BSH120 pin configuration

TOP		BSH		J2																												
BOTTOM																																
Layer																																
Bottom	Headers	J6	2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138	146	154	162	170	178	186	194	202	210	218	226	234
			4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140	148	156	164	172	180	188	196	204	212	220	228	236
		J5	6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142	150	158	166	174	182	190	198	206	214	222	230	238
			8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160	168	176	184	192	200	208	216	224	232	240
Top	Headers	J4	1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137	145	153	161	169	177	185	193	201	209	217	225	233
			3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139	147	155	163	171	179	187	195	203	211	219	227	235
		J3	5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141	149	157	165	173	181	189	197	205	213	221	229	237
			7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143	151	159	167	175	183	191	199	207	215	223	231	239
TOP		BTH		J1																												
BOTTOM																																

Header numbering refers to the connected BTH connector pin number

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

- NOTES:**
- 1 - Pin 1 of the Samtec BTH120 Plug (Header) is connected to Pin 1 BSH120 Socket (Receptacle).
 - 2- The GND test point is connected to 2 internal GND layers.
 Please apply system ground for improved signal measurements

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: ZX135-BSH-BTH120		
DESCRIPTION: Samtec breakout adapter BSH BTH 120		
CHECKED: M. MARINA	DRAWN: SLAVIK	REVISION: 1.0 SHEET: 1 OF 1

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