

Product Name: ZX138-BTEBSE Samtec Breakout Adapter

Product Description: ZX138-BTEBSE enables access to all BTE BSE interface signals via onboard headers. 60pins x 2rows, 120 pins breakout adapter supporting Samtec's 0.8mm (0.0315") pitch HI-SPEED Header / Socket BTE BSE Basic Blade & Beam connectors. All BTE060 signals are connected to BSE060 connector where pin 1 of BTE060 is connected to Pin 1 of BSE060. ZX138-BTEBSE has onboard BTE-060 and BSE-060 connectors, mating with Host BSE-060 connector series and target BTE-060 connector series.

Samtec BTE BSE connector series are compatible with Ultra Micro Power Terminal / Socket , UMPT / UMPS , for flexible two-piece power / signal solutions.

- Designed in 6 layer PCBoard
- Improved signal integrity and crosstalk.
- Matching connector's 50Ω impedance.
- Reference plane impedance 50Ω.
- High bandwidth applications.
- Mates with Samtec host BSE series connector.
- GND test point for easy access.

The GND test point is connected to inner GND planes as well as top & bottom ground fills.
Fully mated (ZX138-BTE60-ST with host, BSE) board clearance is 0.86" (22mm) , enabling applications requiring horizontal access to device under test.

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

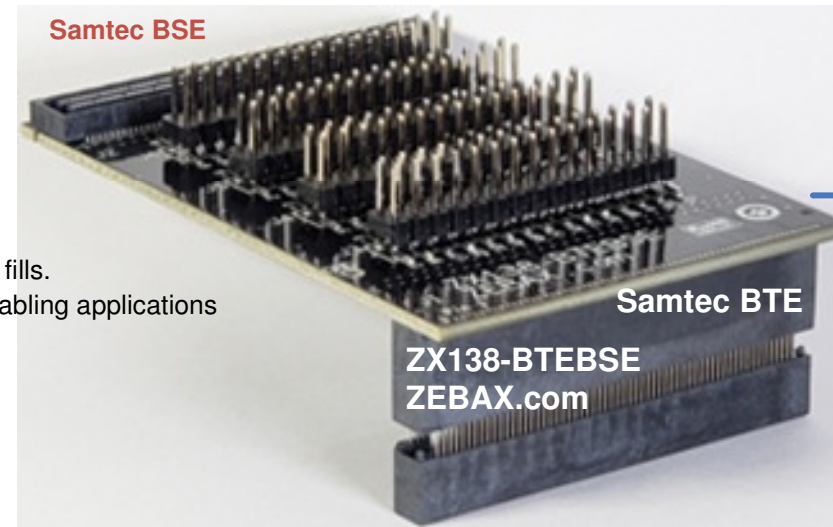
Mates with : Samtec BSE-060 2 rows by 60 positions 0.8mm (0.0315") pitch centerline connector
BSE-060-01-F-D-A BSE-060-01-L-D-A BSE-060-01-C-D-A
BTE-060-01-F-D-A BTE-060-01-L-D-A BTE-060-01-C-D-A

Pitch: 0.80mm (0.0315") pitch Samtec High Speed connector

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

Operating temperature : -40° C to +140°C

Trance Impedance: 50 Ω



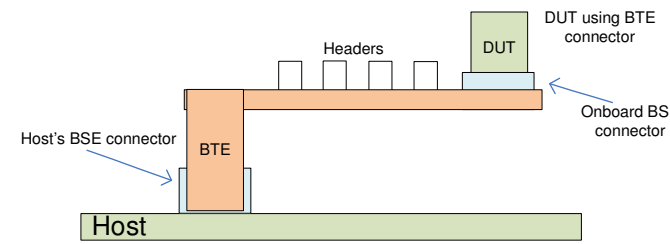
2.13" (54mm)

3.15" (80.1mm)

NOTE:

- 1- GND test point is connected to inner GND planes.
- 2- ZX138-BTEBSE has onboard BTE and BSE connectors, mating with both BTE and BSE connectors.
- 3- Header is standard 0.1" (2.54mm) pitch.
- 4- Fully mated (ZX138-BTEBSE with host, BSE) board clearance is 0.86" (22mm)

Simplified interface block diagram



Ordering INFO:
Part Number
ZX138-BTEBSE

ZX138-BTEBSE - 060 pin configuration - Labeled header pin number refers to BTE connector pins.

TOP	BSE	J2															
Top	Headers	J6	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120
			6	14	22	30	38	46	54	62	70	78	86	94	102	110	118
		J5	4	12	20	28	36	44	52	60	68	76	84	92	100	108	116
			2	10	18	26	34	42	50	58	66	74	82	90	98	106	114
		J4	7	15	23	31	39	47	55	63	71	79	87	95	103	111	119
			5	13	21	29	37	45	53	61	69	77	85	93	101	109	117
		J3	3	11	19	27	35	43	51	59	67	75	83	91	99	107	115
			1	9	17	25	33	41	49	57	65	73	81	89	97	105	113

BOTTOM BTE J1

Pin 1 of BTE is connected to Pin 1 of BSE

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SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT	ASSEMBLY DRAWING	
	ITEM: ZX138-BTEBSE	
DESCRIPTION: Samtec breakout adapter BTE BSE 060 2 rows x60 pins 0.80mm 0.0315" pitch		
CHECKED: M. MARINA	DRAWN: SLAVIK	REVISION: 1.0 SHEET: 1 OF 1