

**Product Name:** ZX138-BTE20 Samtec Breakout Adapter

**Product Description:** ZX138-BTE20 enables access to all BTE020 interface signals via onboard headers. Ideal test module, breakout adapter for test, debug, bringup applications. 20pins x 2rows, 40 pins breakout adapter supporting Samtec's 0.8mm ( 0.0315" ) pitch HI-SPEED Header / Socket BTE Basic Blade & Beam connector. Samtec BTE BSE connector series are compatible with Ultra Micro Power Terminal / Socket , UMPT / UMPS , for flexible two-piece power / signal solutions.

ZX138-BTE20 has onboard BTE-020 connector, mating with Host BSE-020 connector series..

- Designed in 6 layer PCBoard
- No via on any signal traces
- 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.

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

**Mates with :** Samtec BSE-020 2 rows by 20 positions 0.8mm ( 0.0315" ) pitch centerline connector  
BSE-020-01-F-D-A BSE-020-01-L-D-A BSE-020-01-C-D-A

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

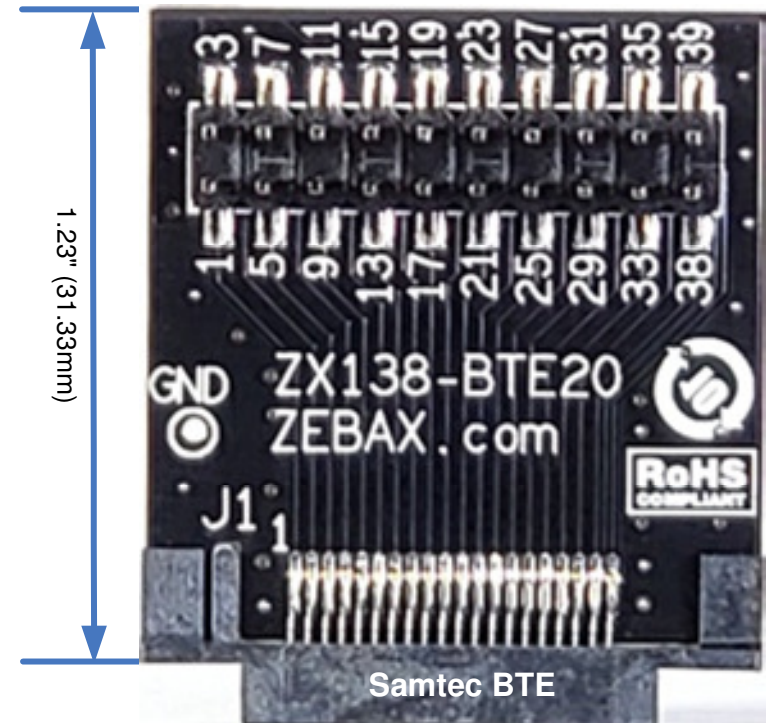
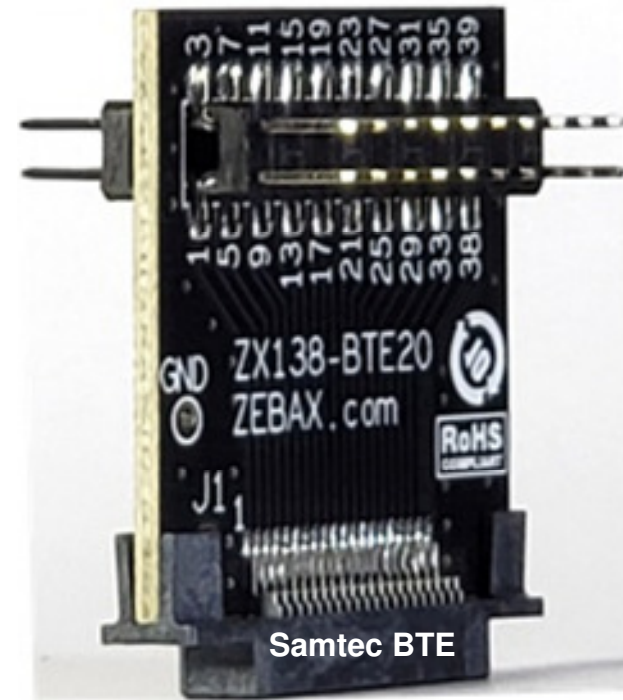
**Headers:** 0.1" (2.54mm) center, 0.025" (0.64mm) SQ with 0.23" (5.6mm) post height

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

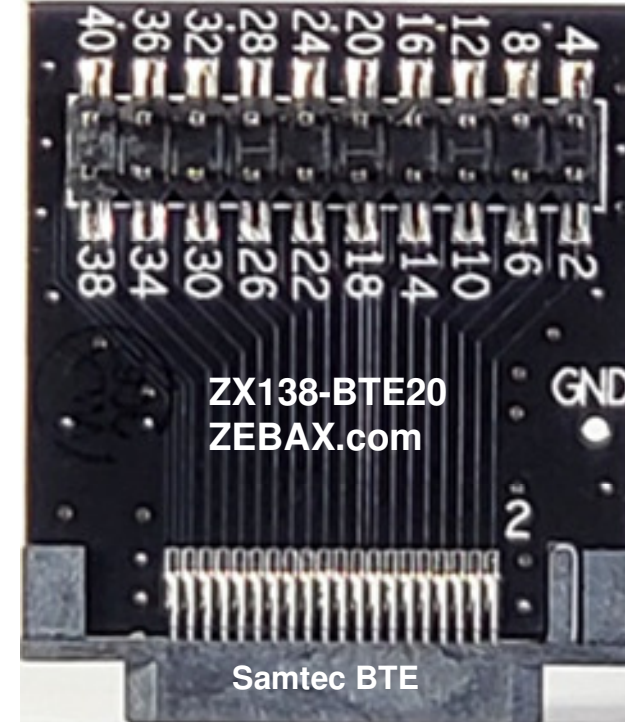
**Trance Impedance:** 50 Ω

**ZX138-BTE020 pin configuration** - Labeled header pin number refers to BTE connector pins.

Bottom	Headers	J2	4	8	12	16	20	24	28	32	36	40
			2	6	10	14	18	22	26	30	34	38
Top	Headers	J3	3	7	11	15	19	23	27	31	35	39
			1	5	9	13	17	21	25	29	33	37
TOP	BTE	J1										
BOTTOM												



*Bottom view*



- NOTE:**
- 1- GND test point is connected to inner GND planes.
  - 2- ZX138-BTE20 has onboard BTE connector, mating with Host BSE connector.
  - 3- Header is standard 0.1" ( 2.54mm ) pitch.

Ordering INFO:  
Part Number  
ZX138-BTE20

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: ZX138-BTE20

**DESCRIPTION:** Samtec breakout adapter BTE 020  
2 rows x 20 pins 0.80mm 0.0315" pitch

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