

Product Name: ZX137-38 MIT MIS Samtec Breakout Adapter, test board

Product Description: 38x2, totaling 76 pins Samtec breakout adapter supporting Samtec's HI-SPEED MIT and MIS Q-Strip Mixed Technology header & Socket. The ZX137-38 mates with both MIS-038 as well as MIT-038 connectors. Ideal debugging development solution.

Fully compatible with :

- 1- Single Ended or Differential Pair signaling MIT & MIS connectors.
- 2- Any connector Stack heights

Designed in 4 layer PCBoard

- No via on any signal traces
- Improved signal integrity and crosstalk.
- Matching connector's 50Ω impedance

Ground , **GND**, test point – The GND test point is connected to 2 inner layers ground planes as well as the MIT & MIS integral ground metal blade, plane.

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

Mates with : Samtec MIT-038 MIS-038 connectors and MICD cable assembly
Mates with both Single-Ended Signaling (-D) and Differential Pair (-DP) Signaling type connectors.

Pitch: 0.63mm (0.025") High Speed connector

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

ZX137-38 MIT-MIS-076 pin configuration

TOP	MIT	J1										
BOTTOM												

Layer												
Bottom	Headers	J5	8	16	24	32	40	48	56	64	72	GND
			6	14	22	30	38	46	54	62	70	GND
		J4	4	12	20	28	36	44	52	60	68	76
			2	10	18	26	34	42	50	58	66	74

Layer												
Top	Headers	J4	7	15	23	31	39	47	55	63	71	GND
			5	13	21	29	37	45	53	61	69	GND
		J3	3	11	19	27	35	43	51	59	67	75
			1	9	17	25	33	41	49	57	65	73

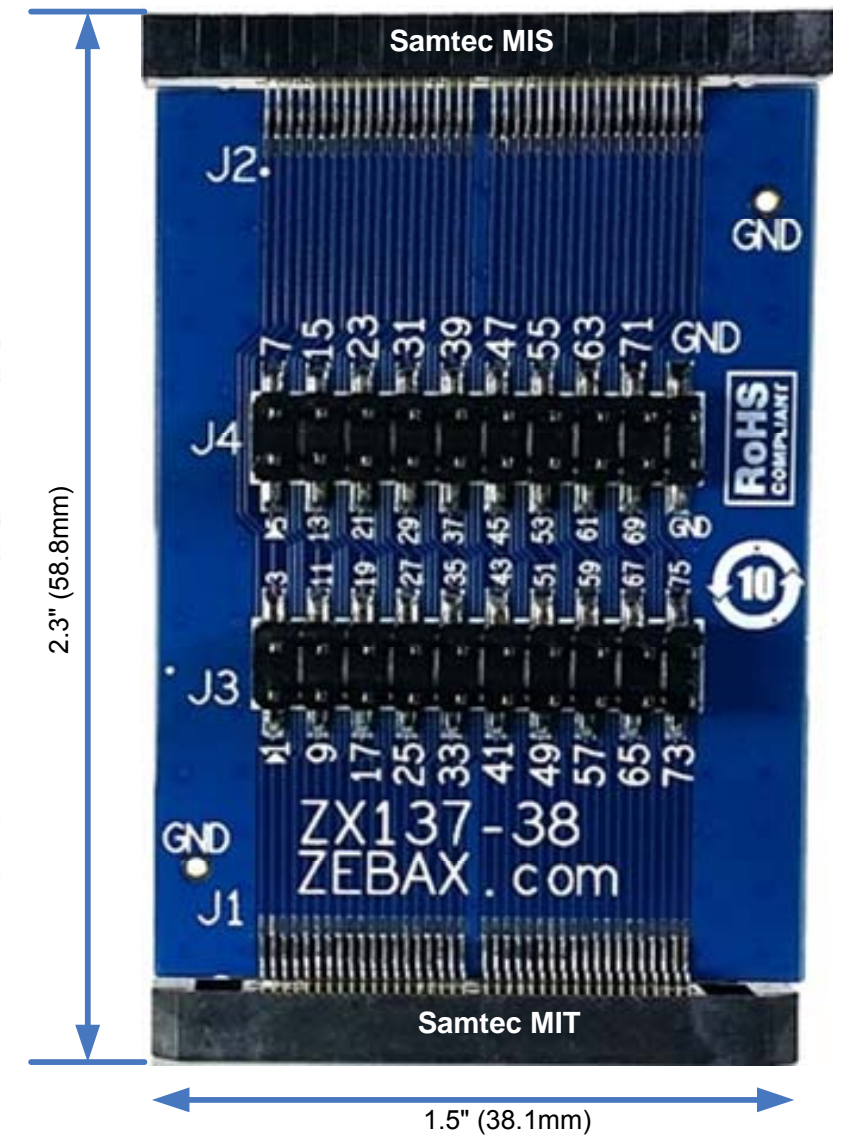
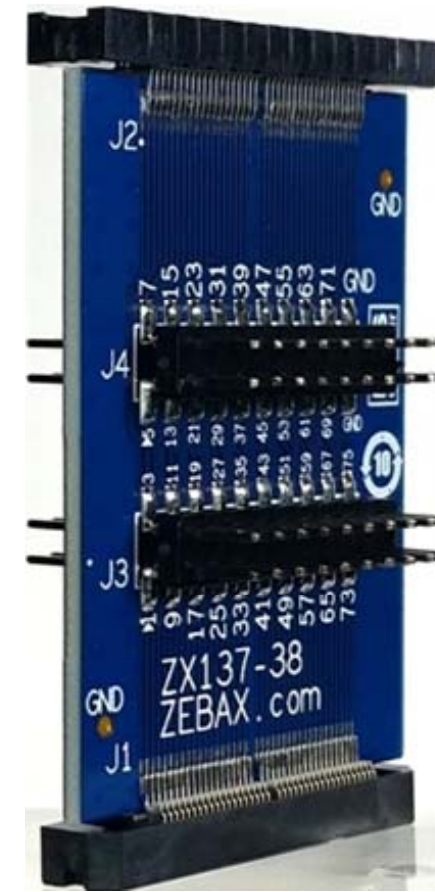
TOP	MIS	J2										
BOTTOM												

Header pin numbers refer to the SAMTEC connector pin number

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NOTE: Pin 1 of the MIT (Header) is connected to Pin 1 of MIS (Socket), enabling target board debugging by using ZX137-38 in between Host and Target device.

Note
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SANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717		
WWW.ZEBAX.COM		
SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT	ASSEMBLY DRAWING	
	ITEM: ZX137-38	
DESCRIPTION: MIT MIS 038 38 Samtec breakout adapter test board		
CHECKED: M. MARINA	DRAWN: SLAVIK	REVISION: 1.0
		SHEET: 1 OF 1