

Product Name: ZX137-57 MIT MIS Samtec Breakout Adapter, test board

Product Description: 57x2, totaling 114 pins Samtec breakout adapter supporting Samtec's HI-SPEED MIT and MIS Q-Strip Mixed Technology header & Socket. The ZX137-57 mates with both MIS-057 as well as MIT-057 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

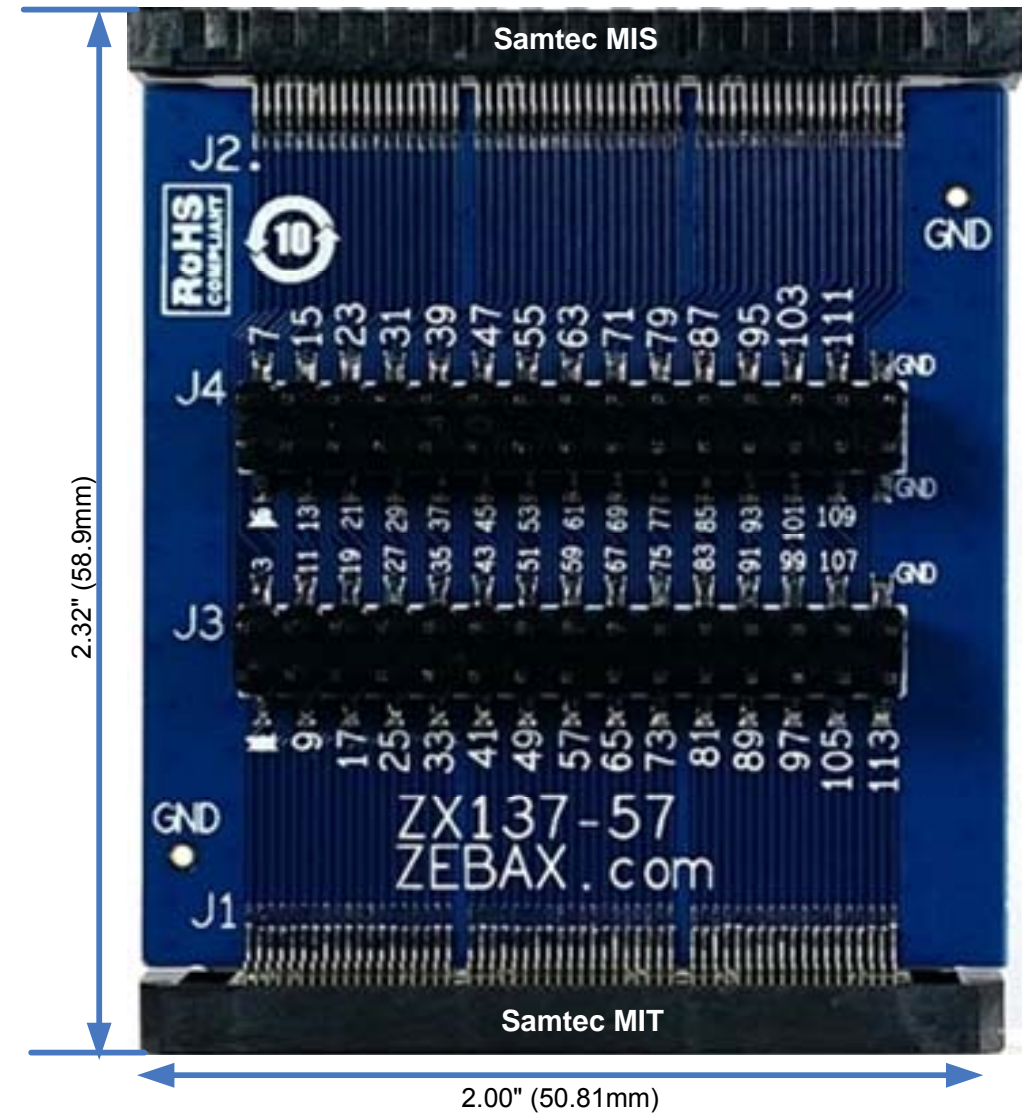
Ground , **GND**, test point – The GND test point is connected to 2 inner layers ground planes as well as the MIT & MIS integral ground metal blade, plane.

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

Mates with : Samtec MIT-057 MIS-057 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



ZX137-57 MIT-MIS-114 pin configuration

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

NOTE: Pin 1 of the MIT (Header) is connected to Pin 1 of MIS (Socket), enabling target board debugging by using ZX137-57 in between Host and Target device.

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

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

Header pin numbers refer to the SAMTEC connector pin number

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SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT	ASSEMBLY DRAWING ITEM: ZX137-57
DESCRIPTION: MIT MIS 057 57 Samtec breakout adapter test board	
CHECKED: M. MARINA	DRAWN: SLAVIK
REVISION: 1.0 SHEET: 1 OF 1	