

Product Name: ZX137-19MIT Samtec Breakout Adapter, test board

Product Description: 19x2, totaling 38 pins Samtec breakout adapter supporting Samtec's HI-SPEED MIT Q-Strip Mixed Technology header. The ZX137-19MIT mates with host MIS-019 Samtec connector. Ideal debugging development and signal measurements solution.

Fully compatible with :

- 1- Single Ended or Differential Pair signaling 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 integral ground metal blade, plane.



1.45" (36.8mm)

0.75" (19mm)

Samtec MIS

1.00" (25.4mm)

1.17" (29.7mm)

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

Mates with : Samtec MIS-019 connector 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

ZX137-19MIT 038 pin configuration

| | | | | | | | | | | | | |
|--------|-----|----|--|--|--|--|--|--|--|--|--|--|
| TOP | MIT | J1 | | | | | | | | | | |
| BOTTOM | | | | | | | | | | | | |

| Layer | | | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | GND |
|--------|---------|----|---|---|----|----|----|----|----|----|----|-----|
| Bottom | Headers | J3 | 2 | 6 | 10 | 14 | 18 | 22 | 26 | 30 | 34 | 38 |

| Top | Headers | J2 | 3 | 7 | 11 | 15 | 19 | 23 | 27 | 31 | 35 | GND |
|-----|---------|----|---|---|----|----|----|----|----|----|----|-----|
| | | | 1 | 5 | 9 | 13 | 17 | 21 | 25 | 29 | 33 | 37 |

Header pin numbers refer to the MIT SAMTEC connector pin number

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

| | | |
|---|-------------------------|--------------------------------|
| 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: ZX137-19MIT | |
| DESCRIPTION: MIT 019 19 Samtec breakout adapter test board | | |
| CHECKED: M. MARINA | DRAWN: SLAVIK | REVISION: 1.0 SHEET: 1 OF 1 |

Notice
ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." ZEBAX MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NO INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.
Information furnished is believed to be accurate and reliable. However, Zebax Technologies assumes no responsibility for the consequences of use of such information or for any infringement of patents or other rights of third parties that may result from its use. Specifications mentioned in this publication are subject to change without notice. This publication replaces all other information previously supplied. Zebax Technologies products are not authorized as in life support devices or systems.