

**Product Name:** ZX154-052-QMS-QFS Samtec Breakout Adapter

**Product Description:** 52pins x 2 rows, 104 pin Samtec breakout adapter – Single Ended. Offering both QMS and QFS connectors on a single breakout adapter. Designed in 4 layer PCBoard with full access to all 104 signals.

*This module mates with both Single ended ( -D ) and Differential Pair signaling ( -DP ) connector types are supported.*

The Samtec GND pins are connected to the modules top/bottom fill & 2 inner GND planes for reduced crosstalk, xtalk, and improved signal integrity.

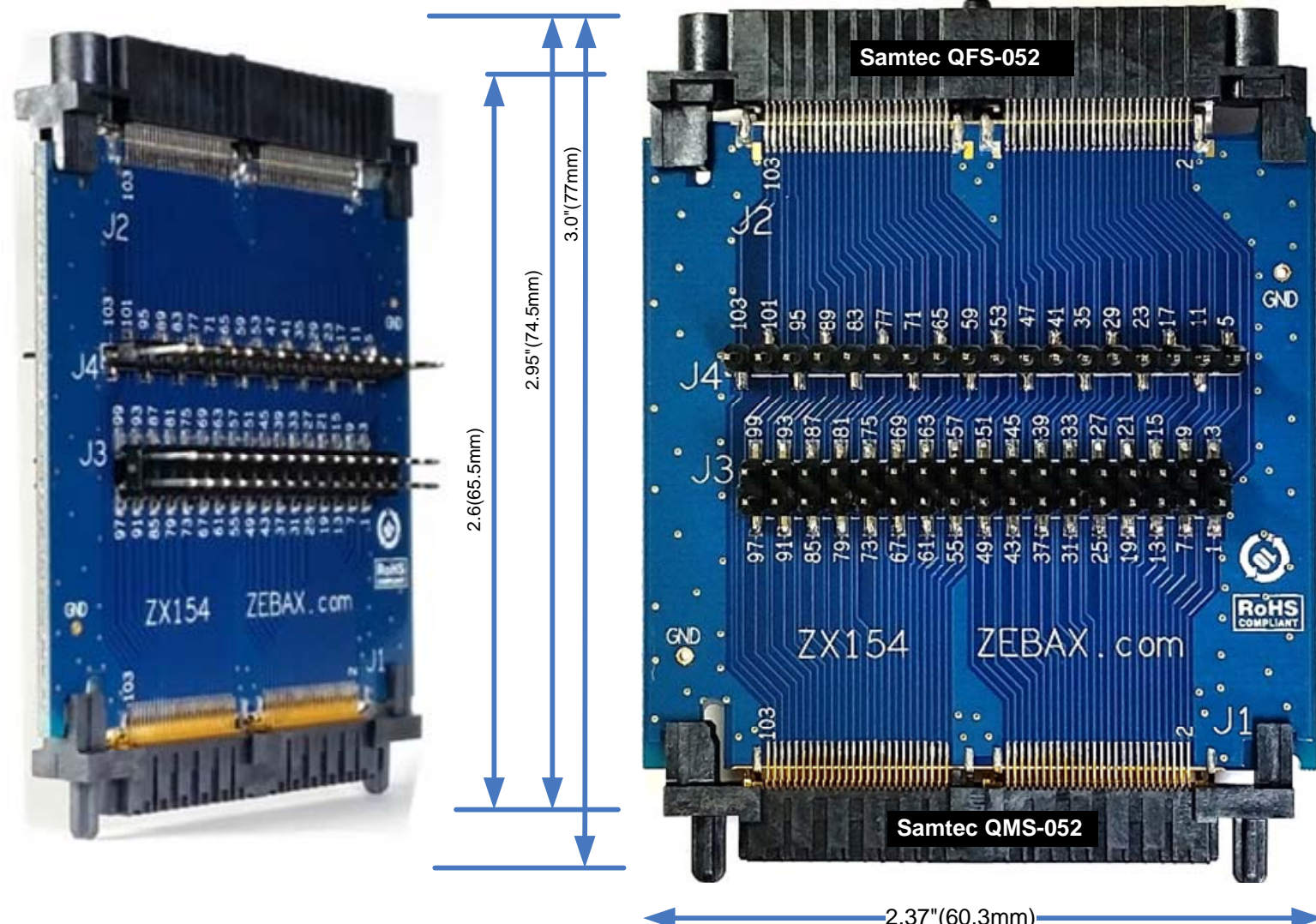
GND test point for direct connection.

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

**Mates with :** Samtec QMS-052 QFS-052 QMS-032 QFS-032 -D -DP

**Pitch:** 0.635mm (0.025") High Speed connector

**Headers:** 0.1" (2.54mm) center, 0.025" SQ with 0.22" (5.58mm) post height



**ZX154-052-QMS-QFS pin configuration**

|     |         |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |
|-----|---------|----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|
| Top | Headers | J4 | 103 | 101 | 95 | 89 | 83 | 77 | 71 | 65 | 59 | 53 | 47 | 41 | 35 | 29 | 23 | 17 | 11 | 5 |   |
|     |         | J3 |     |     | 99 | 93 | 87 | 81 | 75 | 69 | 63 | 57 | 51 | 45 | 39 | 33 | 27 | 21 | 15 | 9 | 3 |
|     |         |    |     |     | 97 | 91 | 85 | 79 | 73 | 67 | 61 | 55 | 49 | 43 | 37 | 31 | 25 | 19 | 13 | 7 | 1 |

|        |         |    |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|--------|---------|----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| Bottom | Headers | J6 | 104 | 102 | 96  | 90 | 84 | 78 | 72 | 66 | 60 | 54 | 48 | 42 | 36 | 30 | 24 | 18 | 12 | 6  |   |
|        |         | J5 |     |     | 100 | 94 | 88 | 82 | 76 | 70 | 64 | 58 | 52 | 46 | 40 | 34 | 28 | 22 | 16 | 10 | 4 |
|        |         |    |     |     | 98  | 92 | 86 | 80 | 74 | 68 | 62 | 56 | 50 | 44 | 38 | 32 | 26 | 20 | 14 | 8  | 2 |

Header pin numbers refer to the SAMTEC connector pin number

**NOTE:**  
 1- Pin 1 of the QMS ( J1-Header ) is connected to Pin 1 of QFS ( J2-Receptacle ).  
 2- Both Single ended ( -D ) and Differential Pair signaling ( -DP ) connector types are supported.

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: ZX154-052-QMS-QFS |                                |
| DESCRIPTION: Samtec breakout adapter 052 QMS QFS  |                         |                                |
| CHECKED:<br>M. MARINA   | DRAWN:<br>SLAVIK        | REVISION: 1.0<br>SHEET: 1 OF 1 |

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