

**Product Name: ZX141-QTS-050 Samtec Breakout Adapter**

**Product Description:** 50pins per row x 2rows → 100 pins Samtec breakout adapter supporting Samtec 0.635mm ( 0.025" ) pitch Q Strip high speed ground plane Terminal strip connector series. All Samtec QTS 050 connector pins are accessible via onboard 0.1" pitch header. ZX141-QTS-050 mates with any type of Samtec QSS 050 connector on host.

- 1- All Samtec QTS 050 connector pins are accessible via onboard 0.1" ( 2.54mm) pitch header.
- 2- All traces are designed 50 Ohms impedance controlled.
- 3- Four, 4, layers PCB design, inner layers are GND planes with direct connection to QTS ground blades.
- 4- Accessible GND test point, The test point is connected to module's GND planes ( integral metal plane - GND blade )
- 5- Mates with any Samtec QSS height and formfactor connector series such as -DP, -RA, -EM configurations.
- 6- Ease of interface with single ended and differential scope probes.
- 7- Ideal test solution for interfacing to evaluation board or host for test and measurements.
- 8- Fully compatible with Single Ended , SE, and Differential Pair, DP, Samtec connector QSS connector series as well as cable assemblies; SQCD .
- 9- Improved signal integrity and crosstalk.
- 10 – Easy design modification & interface utilizing ZX100ACC-SS wire assembly – offered at 3", 6", 9" and 12" lengths

**Electrical:** Insertion loss > -1dB @2GHz  
 Trace impedance: 50 Ω  
 Operating Temperature: -55°C to +125°C  
 Current per QTS pin: 1.8A ( max. )  
 Ground Plane Current: 46A ( 23 A per bank ) – max.

**Application:** Bringup, testing, emulation, development, modular design evaluations, manufacturing test & measurement

**Mates with :** Samtec QSS-050 connectors, SQCD cable assembly, and any 2 banks of QSS-075 or QSS-100 connectors. Compatible with UMPT/UMPS for flexible two-piece power/signal solutions

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

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

**Header pin configuration:** Table below exhibits the header pin configuration. The listed number is Samtec QTS connector pin number

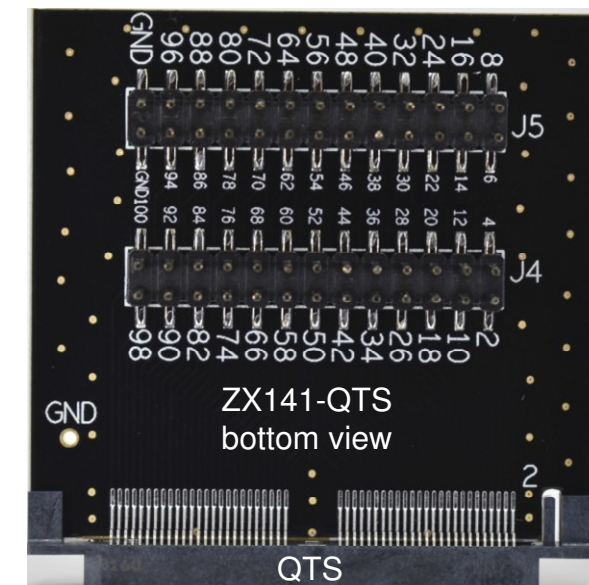
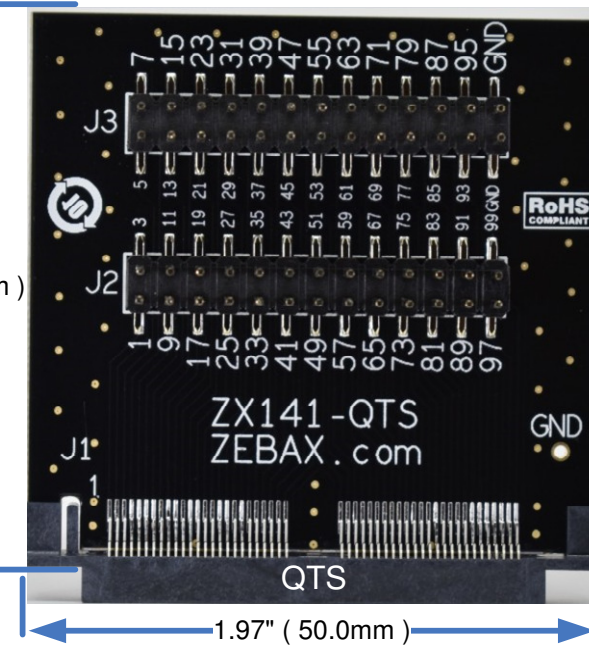
ZX141-QTS-050 pin header pin configuration															
Layer															
Top	Headers	J3	7	15	23	31	39	47	55	63	71	79	87	95	GND
			5	13	21	29	37	45	53	61	69	77	85	93	GND
	Headers	J2	3	11	19	27	35	43	51	59	67	75	83	91	99
			1	9	17	25	33	41	49	57	65	73	81	89	97
Bottom	Headers	J5	8	16	24	32	40	48	56	64	72	80	88	96	GND
			6	14	22	30	38	46	54	62	70	78	86	94	GND
	Headers	J4	4	12	20	28	36	44	52	60	68	76	84	92	100
			2	10	18	26	34	42	50	58	66	74	82	90	98
TOP	QTS	J1													
BOTTOM															

**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.

1.9" ( 48mm )



ZX100ACC-SS 3" long wire assembly  
Zebax.com

**Compliance:**

- ISO2001 certified
  - RoHs - Lead Free
  - EU RoHS2
  - UL E111594 document
  - ELV- Vehicle Directive ( Directive 2000/EC)
  - European Union Directive ( 203/11/EC )
  - Halogen Free per IEC-61249-2.21 : 2003
  - RoHs Directive 2011/65/EU
  - WEEE Directive ( 2012/12/EU)
- Certificate of Compliance for Radioactive substances  
 Certificate of Compliance for Asbestos  
 Certificate of Compliance for Ozone Depleting Substances, ODS  
 Certificate REACH SVHC  
 Certificate of Compliance RoHS\_EN\_CoC

**ZX141-QTS-050 package includes:**

Part number	Quantity	Description
ZX141-QTS-050	1	Breakout Adapter
ZX100ACC-SS	0	28AWG pin socket to pin socket wire assembly

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

<b>ZEBAX TECHNOLOGIES</b> SANTA CRUZ, CA U.S.A ( 831 ) 2 2 2 - 0717 WWW.ZEBAX.COM		
SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT	<b>ASSEMBLY DRAWING</b>	
<b>ITEM: ZX141-QTS-050</b>		
<b>DESCRIPTION: Samtec breakout adapter QTS 050</b>		
<b>CHECKED:</b> M. MARINA	<b>DRAWN:</b> MATTHEW	<b>REVISION: 1.0</b> <b>SHEET: 1 OF 1</b>