

Product Name: ZX141-QSS-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 QSS 050 connector pins are accessible via onboard 0.1" pitch header. ZX141-QSS-050 mates with any type of Samtec QTS 050 connector on host.

- 1- All Samtec QSS 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 QSS 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 QSS 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 QTS-050 connectors, SQCD cable assembly, and any 2 banks of QTS-075 or QTS-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 QSS connector pin number

ZX141-QSS-050 pin header pin configuration															
Layer															
Top	Headers	J3	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
		J2	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
Bottom	Headers	J5	7	15	23	31	39	47	55	63	71	79	87	95	GND
			5	13	21	27	35	43	51	59	67	75	83	91	GND
		J4	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
TOP	QSS	J1													
BOTTOM															

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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)

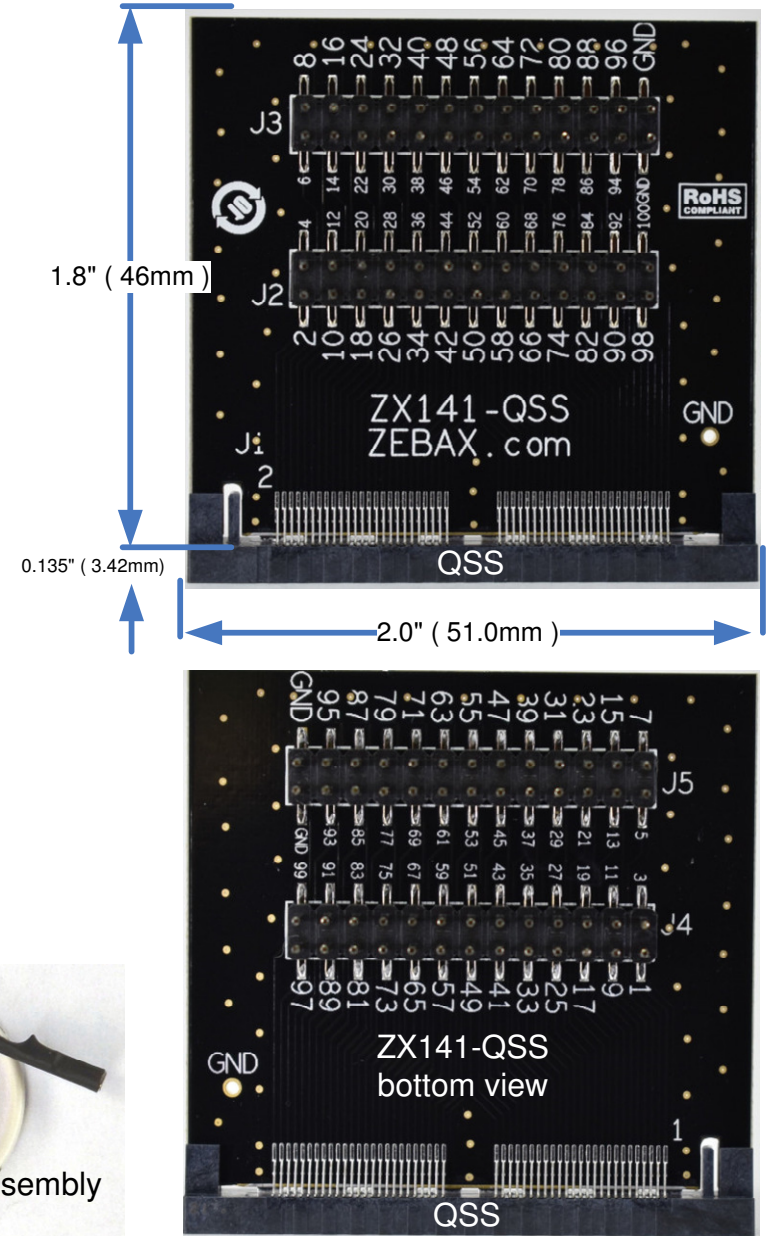
Certificate of Compliance for Radioactive substances
 Certificate of Compliance for Asbestos
 Certificate of Compliance for Ozone Depleting Substances, ODS
 Certificate REACH SVHC
 Certificate of Compliance RoHS_EN_CoC

ZX141-QSS-050 package includes:

Part number	Quantity	Description
ZX141-QSS-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.

ZEBAX TECHNOLOGIES SANTA CRUZ, CA U.S.A (831) 222-0717 WWW.ZEBAX.COM		
SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT	ASSEMBLY DRAWING	
	ITEM: ZX141-QSS-050	
DESCRIPTION: Samtec breakout adapter QSS 050		
CHECKED: M. MARINA	DRAWN: MATTHEW	REVISION: 1.0 SHEET: 1 OF 1



ZX100ACC-SS 3" long wire assembly
Zebax.com