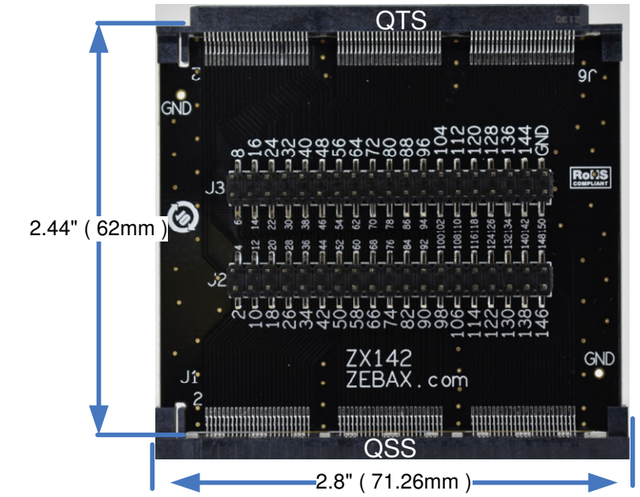
Product Name: **ZX142-QTS-QSS-075 Samtec Breakout Adapter**

Product Description: 50pins per row x 2rows → 150 pins Samtec breakout adapter supporting Samtec 0.635mm (0.025") pitch Q Strip high speed ground plane Terminal strip connector series. All Samtec QTS QSS 075 connector pins are accessible via onboard 0.1" pitch header. ZX142-QTS-QSS-075 mates with any type of Samtec QTS and QSS 075 connectors.

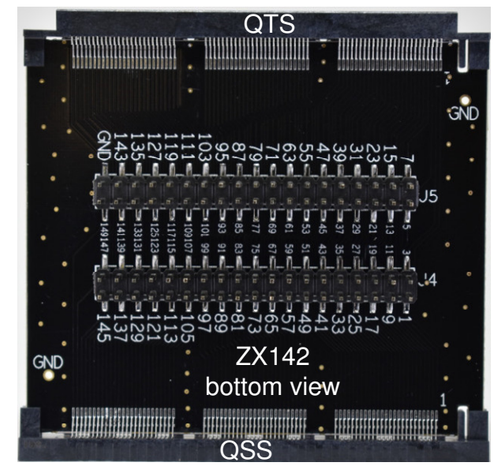
1- All Samtec QTS QSS 075 connector pins are accessible via onboard 0.1" (2.54mm) pitch header.
2- All traces are designed 50 Ohms impedance controlled.
3- Four, 4, layers PCB design, inner layers are GND planes with direct connection to QTS and QSS ground blades.
4- Accessible GND test point, The test point is connected to module's GND planes (integral metal plane - GND blade)
5- Mates with any Samtec QTS and 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℃ to +125℃
Current per QTS 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 QSS -075 QTS-075 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



ZX100ACC-SS 3" long wire assembly
Zebax.com

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

ZX142-QTS-QSS-075 pin header pin configuration

TOP BOTTOM	QTS	J6																			
Layer																					
Top	Headers	J3	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	GND
			6	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142	150
		J2	4	12	20	28	36	44	52	60	68	76	84	92	100	108	116	124	132	140	148
			2	10	18	26	34	42	50	58	66	74	82	90	98	106	114	122	130	138	146
Bottom	Headers	J5	7	15	23	31	39	47	55	63	71	79	87	95	103	111	119	127	135	143	GND
			5	13	21	29	37	45	53	61	69	77	85	93	101	109	117	125	133	141	149
		J4	3	11	19	27	35	43	51	59	67	75	83	91	99	107	115	123	131	139	147
			1	9	17	25	33	41	49	57	65	73	81	89	97	105	113	121	129	137	145
TOP BOTTOM	QSS	J1																			

Pin 1 of QSS is connected to Pin 1 of QTS

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

ZX142-QTS-QSS-075 package includes:

Part number	Quantity	Description
ZX142-QTS-QSS-075	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.

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WWW.ZEBAX.COM

SPECIFIED DIMENSIONS ARE INCHES (MM).
ROHS COMPLIANT

ASSEMBLY DRAWING
ITEM: ZX142-QTS-QSS-075

DESCRIPTION: Samtec breakout adapter QTS QSS 075

CHECKED: M. MARINA
DRAWN: MATTHEW
REVISSION: 1.0
SHEET: 1 OF 1

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