

Product Name: ZX147-QSE-060 Samtec Breakout Adapter
TE Mictor SB 0.8mm (0.032") centerline 120 positions Breakout Adapter

Product Description: 60x2, 120 pins breakout adapter supporting :
1- Samtec's HI-SPEED Header / Socket QTE / QSE Q-Strip Blade & Beam Design connectors.
2- Tyco Electronics, TE, Mictor SD 0.8mm centerline (pitch) 120 positions Mictor-Strip connectors.

Fully compatible with 56x2 112 pins differential pairs, -DP

- Designed in 4 layer PCBoard
- No via on any signal traces
- Improved signal integrity and crosstalk.
- Matching connector's 50Ω impedance.
- Reference plane impedance 50Ω.
- High bandwidth applications
- GND test point for easy access

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

Mates with : Samtec QTE-060-L-D QTE-042-01-DP connectors
EQCD EQSD EQDP EQRF cable assembly
and any **3 banks** of QTE-080 QSE-080 (-056 Differential pair, -DP) connectors.
TE Mictor SD 0.8mm (0.032") centerline 120 positions (2 rows, 60 positions / row) Plug.
Table 2 lists 120 positions - 2 Rows x 60 Pins/Row TE Mictor SB 0.8mm (0.032") Pitch Connectors Part numbers
ZX147-QSE-060 mates with all listed Plug of TE Mictor SD 0.80mm (0.032") centerline 120 position connectors.
Table 3 lists cross matrix compatibility between Samtec and TE Mictor SD 0.8mm (0.032) 80 positions connector.

Headers: 0.1" (2.54mm) center, 0.025" (0.64mm) SQ with 0.23" (5.6mm) post height
Pitch: 0.80mm (0.0315") High Speed connector

ZX147-QTE-QSE-060 pin configuration																	
TOP	QTE J6																
BOTTOM	QTE J6																
Layer																	
Bottom	Headers	J5	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120
			6	14	22	30	38	46	54	62	70	78	86	94	102	110	118
Bottom	Headers	J4	4	12	20	28	36	44	52	60	68	76	84	92	100	108	116
			2	10	18	26	34	42	50	58	66	74	82	90	98	106	114
Top	Headers	J3	7	15	23	31	39	47	55	63	71	79	87	95	103	111	119
			5	13	21	29	37	45	53	61	69	77	85	93	101	109	117
Top	Headers	J2	3	11	19	27	35	43	51	59	67	75	83	91	99	107	115
			1	9	17	25	33	41	49	57	65	73	81	89	97	105	113
TOP	QSE J1																
BOTTOM	QSE J1																

Labeled header pin number refers to QTE / QSE pin.
Pin 1 of QSE is connected to Pin 1 of QTE.

120 positions - 2 Rows x 60 Pins/Row TE Mictor SB 0.8mm (0.032") Pitch Connectors Part numbers		
TE Mictor SD 0.8mm (0.032")	Description	Mated Stack Height
1658043-3 2-1658043-3 1658012-3 2-1658012-3 1658462-3 2-1658462-3	Receptacle	
1658044-3 2-1658044-3 1658013-3 2-1658013-3 1658463-3 2-1658463-3	Plug	5mm (0.197")
4-1658044-3 6-1658044-3 4-1658013-3 6-1658013-3 4-1658463-3 6-1658463-3		8mm (0.315")
1658045-3 2-1658045-3 1658014-3 2-1658014-3 1658464-3 2-1658464-3		11mm (0.433")
4-1658045-3 6-1658045-3 4-1658014-3 6-1658014-3 4-1658464-3 6-1658464-3		14mm (0.551")
1658046-3 2-1658046-3 1658015-3 2-1658015-3 1658465-3 2-1658465-3		16mm (0.63")
4-1658046-3 6-1658046-3 4-1658015-3 6-1658015-3 4-1658465-3 6-1658465-3		19mm (0.748")
1658437-3 2-1658437-3 1658438-3 2-1658438-3 1658439-3 2-1658439-3		22mm (0.866")
4-1658437-3 6-1658437-3 4-1658438-3 6-1658438-3 4-1658439-3 6-1658439-3		25mm (0.984")
1658047-3 2-1658047-3 1658016-3 2-1658016-3 1658466-3 2-1658466-3		30mm (1.181")
4-1658047-3 6-1658047-3 4-1658016-3 6-1658016-3 4-1658466-3 6-1658466-3		
1658048-3 2-1658048-3 1658017-3 2-1658017-3 1658467-3 2-1658467-3		
1658049-3 2-1658049-3 1658018-3 2-1658018-3 1658468-3 2-1658468-3		
1658050-3 — 1658019-3 — 1658469-3		
1658051-3 — 1658020-3 — 1658470-3		

All above listed TE Mictor SB 0.80mm (0.032") centerline (pitch) are compatible with Samtec QStrip QTE QSE connectors

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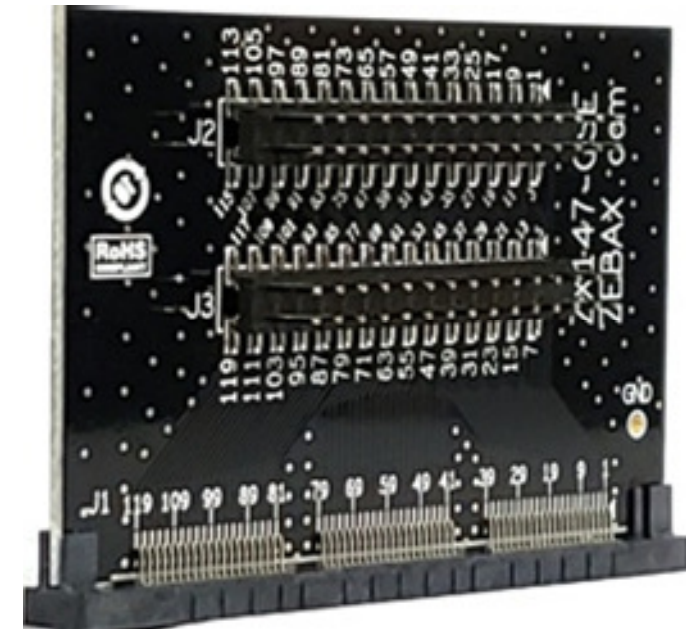
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1.89"(48mm)

2.80" (71.2mm)

NOTE:

- 1- GND test point is connected to inner GND planes as well as the Samtec/TE edge connector GND tab
- 2- ZX147-QSE has onboard QSE connector, mating with Host QTE or TE Mictor SB 0.80mm centerline plug connectors.



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

ZX147 Samtec Qstrip QTE QSE cross matrix compatibility with TE Mictor SB 0.8mm (0.032") Pitch Connectors							
TE Mictor SD 0.8mm (0.032")			Samtec QStrip QTE QSE			Description	Mated Stack Height
Gold Flashing	10 μ" Gold Plating	30 μ" Gold Plating	Gold Flashing	10 μ" Gold Plating	30 μ" Gold Plating		
1658043-3	1658012-3	1658462-3	QSE-060-01-F-D-A	QSE-060-01-L-D-A	QSE-060-01-C-D-A	Receptacle	
1658044-3	1658013-3	1658463-3	QTE-060-01-F-D-A	QTE-060-01-L-D-A	QTE-060-01-C-D-A	Plug	5mm (0.197")
1658045-3	1658014-3	1658464-3	QTE-060-02-F-D-A	QTE-060-02-L-D-A	QTE-060-02-C-D-A		8mm (0.315")
1658046-3	1658015-3	1658465-3	QTE-060-03-F-D-A	QTE-060-03-L-D-A	QTE-060-03-C-D-A		11mm (0.433")
1658437-3	1658438-3	1658439-3	QTE-060-09-F-D-A	QTE-060-09-L-D-A	QTE-060-09-C-D-A		14mm (0.551")
1658047-3	1658016-3	1658466-3	QTE-060-04-F-D-A	QTE-060-04-L-D-A	QTE-060-04-C-D-A		16mm (0.63")
1658048-3	1658017-3	1658467-3	QTE-060-05-F-D-A	QTE-060-05-L-D-A	QTE-060-05-C-D-A		19mm (0.748")
1658049-3	1658018-3	1658468-3	QTE-060-07-F-D-A	QTE-060-07-L-D-A	QTE-060-07-C-D-A		22mm (0.866")
1658050-3	1658019-3	1658469-3					25mm (0.984")
1658051-3	1658020-3	1658470-3					30mm (1.181")

Note:
1- Stack Height : Receptacle with the listed Plug
2- Any listed Samtec QTE Plug is compatible with Any TE Mictor SD 0.8mm (0.032") pitch Receptacle connector.
3- Any Listed TE Mictor SD 0.8mm (0.032") pitch Plug is compatible with Any Samtec QStrip QSE connector.

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SPECIFIED DIMENSIONS ARE INCHES (MMD). ROHS COMPLIANT	ASSEMBLY DRAWING	
	ITEM: ZX147-QSE-060	
DESCRIPTION: Samtec breakout adapter QSE 060 TE Mictor SD 0.80mm 120 breakout adapter		
CHECKED: M. MARINA	DRAWN: SLAVIK	REVISION: 1.0 SHEET: 1 OF 1