

Product Name: ZX146-QTE-QSE-040 Samtec Breakout Adapter
TE Mictor SB 0.8mm (0.032") centerline 80 Breakout Adapter

Mates with : Samtec QTE-040-L-D QSE-040-L-D QTE-028-01-DP QSE-028-01-DP connectors
EQCD EQSD EQDP EQRF cable assembly , any 2 banks of QTE-060 QSE-060 or -DP
Samtec QTE-040-L-D QSE-040-L-D QTE-028-01-DP QSE-028-01-DP connectors
and any 2 banks of QTE-060 QSE-060 (-042 Differential pair, -DP), QTE-080 QSE-080 (-056) connectors.

ZX146-QTE-QSE-040 mates with all -DP (differential pair) QTE QSE connector series, QTE-028 QSE-028 connectors. If interfacing with -DP connector series, please ignore every other signal as the -DP connector only provides access to differential pair signals where the 3rd signal is not present on the -DP connector series.

TE Mictor SB 0.8mm (0.032") centerline 80 positions (2 rows, 40 positions / row) Plug and Receptacles.

Table 1 lists 80 positions - 2 Rows x 40 Pins/Row TE Mictor SB 0.8mm (0.032") Pitch Connectors Part numbers
ZX146-QTE-QSE-040 mates with all listed Plug and Receptacles of TE Mictor SB 0.80mm (0.032") centerline 80 position connectors.

Table 2 lists cross matrix compatibility between Samtec and TE Mictor SB 0.8mm (0.032") 80 positions connector.

Table 1: TE Mictor SB 0.8mm (0.032") Pitch Connectors Part numbers

80 positions - 2 Rows x 40 Pins/Row TE Mictor SB 0.8mm (0.032") Pitch Connectors Part numbers		
TE Mictor SB 0.8mm (0.032")	Description	Mated Stack Height
1658043-2 2-1658043-2 1658012-2 2-1658012-2 1658462-2 2-1658462-2	Receptacle	
1658044-2 2-1658044-2 1658013-2 2-1658013-2 1658463-2 2-1658463-2	Plug	5mm (0.197")
4-1658044-2 6-1658044-2 4-1658013-2 6-1658013-2 4-1658463-2 6-1658463-2		8mm (0.315")
1658045-2 2-1658045-2 1658014-2 2-1658014-2 1658464-2 2-1658464-2		11mm (0.433")
4-1658045-2 6-1658045-2 4-1658014-2 6-1658014-2 4-1658464-2 6-1658464-2		14mm (0.551")
1658046-2 2-1658046-2 1658015-2 2-1658015-2 1658465-2 2-1658465-2		16mm (0.63")
4-1658046-2 6-1658046-2 4-1658015-2 6-1658015-2 4-1658465-2 6-1658465-2		19mm (0.748")
1658437-2 2-1658437-2 1658438-2 2-1658438-2 1658439-2 2-1658439-2		22mm (0.866")
4-1658437-2 6-1658437-2 4-1658438-2 6-1658438-2 4-1658439-2 6-1658439-2		25mm (0.984")
1658047-2 2-1658047-2 1658016-2 2-1658016-2 1658466-2 2-1658466-2		30mm (1.181")
4-1658047-2 6-1658047-2 4-1658016-2 6-1658016-2 4-1658466-2 6-1658466-2		
1658048-2 2-1658048-2 1658017-2 2-1658017-2 1658467-2 2-1658467-2		
4-1658048-2 6-1658048-2 4-1658017-2 6-1658017-2 4-1658467-2 6-1658467-2		
1658049-2 2-1658049-2 1658018-2 2-1658018-2 1658468-2 2-1658468-2		
1658050-2 — 1658019-2 — 1658469-2 —		
1658051-2 — 1658020-2 — 1658470-2		

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

Table 2: Cross matrix compatibility between Samtec and TE Mictor SB 0.8mm (0.032") 80 positions connector.

ZX146 Samtec Qstrip QTE QSE cross matrix compatability with TE Mictor SB 0.8mm (0.032") Pitch Connectors							
TE Mictor SB 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		
1658043-2	1658012-2	1658462-2	QSE-040-01-F-D-A	QSE-040-01-L-D-A	QSE-040-01-C-D-A	Receptacle	
1658044-2	1658013-2	1658463-2	QTE-040-01-F-D-A	QTE-040-01-L-D-A	QTE-040-01-C-D-A	Plug	5mm (0.197")
1658045-2	1658014-2	1658464-2	QTE-040-02-F-D-A	QTE-040-02-L-D-A	QTE-040-02-C-D-A		8mm (0.315")
1658046-2	1658015-2	1658465-2	QTE-040-03-F-D-A	QTE-040-03-L-D-A	QTE-040-03-C-D-A		11mm (0.433")
1658437-2	1658438-2	1658439-2	QTE-040-09-F-D-A	QTE-040-09-L-D-A	QTE-040-09-C-D-A		14mm (0.551")
1658047-2	1658016-2	1658466-2	QTE-040-04-F-D-A	QTE-040-04-L-D-A	QTE-040-04-C-D-A		16mm (0.63")
1658048-2	1658017-2	1658467-2	QTE-040-05-F-D-A	QTE-040-05-L-D-A	QTE-040-05-C-D-A		19mm (0.748")
1658049-2	1658018-2	1658468-2					22mm (0.866")
1658050-2	1658019-2	1658469-2	QTE-040-07-F-D-A	QTE-040-07-L-D-A	QTE-040-07-C-D-A		25mm (0.984")
1658051-2	1658020-2	1658470-2					30mm (1.181")

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

Ground : Samtec QTE & QSE as well as TE Mictor SB 0.8mm centerline connector series include enter line Ground blade.
The Ground blade on the ZX146-QTE-QSE-040 is connected to two internal PCB ground reference layers as well as top / bottom ground fills.
Please refer to page 1 "simplified cross section diagram" for details.

For proper signal measurements, please connect the GND test point to host / target ground reference point.

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: ZX146-QTE-QSE-040
DESCRIPTION: Samtec breakout adapter QTE QSE 040 TE Mictor SB 0.80mm 80 breakout adapter		REVISION: 1.0 SHEET: 2 OF 2
CHECKED: M. MARINA	DRAWN: SLAVIK	

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