	1		4		5	6	
	Product Name	e: ZX103 Samtec Breakout Adapter – QSH 060 QTH 060					
F	Product Desc	ription: 60pins per row x 2 rows > 120 pins Samtec breakout adapter designed servers or networking systems. ZX103 has onboard QTH-060 and QSH-060 Samte connector series.					
_		 Passthrough design where pin 1 of the QTH plug (header) is connected to pin 1 Each QTH-060 connector's signal is routed to onboard QSH-060 connector via c Listed number adjacent to each header pin represents the associated Samtec Q All traces are 50 Ohms impedance controlled. 	onboard heade	ers.).		
E		 5- Four layers PCB design, inner layers are GND planes. 6- Two accessible GND test points, The test points are connected to module's GND 7- Offering low profile design test & measurement applications. 8- Ease of interface with single channel and differential scope probes. 9- Fully compatible with Single Ended , -D, and Differential Pair, -DP, Samtec conn 10- Mates with any height and form factor QSH-060 QTH-060 connectors series su 11- Flying lead wire assembly may be used for board to board interface – See order 	nector QSH QT uch as -D -DP,	⁻H series as we -RA, -EM confi	Il as cable assemblies; HQCD , H gurations.		
		The Fight lead wire assembly may be used for board to board interface – See orde	ening informatio		AUC-33		•
	Electrical:	Insertion loss >-2dB @3GHz Trace impedance: 50 Ω	ZX103 sim	nplified cross se	ection diagram		21 51 51
D		Operating Temperature: -55 ℃ to +125 ℃ Samtec Connector: Onboard Connector: QTH-060-xx 2rows x 60 pins/row QSH-060-xx 2rows x 60 pins/row		Samtec QSH connecto	GND test point	233 103 111 111 111 103 111 111 111 111 1	31= 35= 47=
		Mates with: Any QSH-060-xx and QTH-060-xx formfactor Pitch: 0.0197" (0.50mm) pin to pin pitch Plating: Gold Flash Header:		HDR	HDR HDR: Header Inner layers GND planes	25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	1229 272 1337 352 1435 432 1453 512
		Pitch: 0.1" (2.54mm) pin to pin pitch Pin: Square 0.025" (0.635mm) Height: 0.24" (6mm) Plating: Gold Flash	Note:	Assisted OTH connector	lor	CND ZX103	441 0 0 0
с	Application:	Bringup, testing, emulation, development, modular design evaluations	Signal layers Ground layers, F 1- Top/Bottom		test point is connector to:		•
	Mates with :	Samtec QTH060 QSH060 QTH040(DP) QSH040(DP) - Also mates with ANY two banks of QSH090, QSH120 : QSH060(DP) QSH080(DP) HFHM2 HQCD, HQDP Compatible with – differential Pair (DP), unused signal can be left unconnected or	3- Samtec cor	ayers ground planes nnectors' GND blade.			
	.	Grounded for improved noise immunity.		Compliance ISO2001 certif	fied	ZX100ACC-SS	ZX ⁻ Oly Part
в		ments: Table below exhibits the assigned Samtec pin numbers associated with th and bottom sides of the module.		RoHs - Lead F EU RoHS2 UL E111594 d	166	,,	ZX
	ZX103-QSHQTH060 pin a	ssignments - J1: QSH060 J6: QTH60			Directive (Directive 2000/EC)		Z
	Bottom Headers	J5 <u>120 112 104 96 88 80 72 64 56 48 40 32 24</u> 118 110 102 94 86 78 70 62 54 46 38 30 22	16 8 14 6		on Directive(203/11/EC) per IEC-61249-2.21:2003 e 2011/65/EU	11	Not e
-	· · · · · · · · · · · · · · · · · · ·	116 108 100 92 84 76 68 60 52 44 36 28 20 114 106 98 90 82 74 66 58 50 42 34 26 18	12 4 10 2		ve (2012/12/EU)	11	Z
	Top Headers	J3 119 111 103 95 87 79 71 63 55 47 39 31 23 117 109 101 93 85 77 69 61 53 45 37 29 21 10 115 107 99 91 83 75 67 59 51 43 35 27 19	15 7 13 5 11 3	Certificate of C	Compliance for Radioactive subst Compliance for Asbestos Compliance for Ozone Depleting S		S. W
A	Header pin numbers refer to the S	JZ 113 105 97 89 81 73 65 57 49 41 33 25 17 SAMTEC QSH - QTH connectors pin numbers - Pin 1 of QSH is connected to Pin 1 of QTH 10 </td <td>9 1</td> <td>Certificate RE</td> <td></td> <td></td> <td></td>	9 1	Certificate RE			
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