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	Product Name: ZX103-RK Samtec Breakout Adapter - In-system rackmount / Iow profile	Samtec QTH060
F	Product Description: 60pins per row x 2 rows > 120 pins Samtec breakout adapter designed for in-system rackmount low profile test and measurement applications; servers or networking systems. ZX103-RK has onboard QTH-060 and QSH-060 Samtec connectors, mating with QSH-060 and QTH-060 connector series.	F 1113 105 1113 105 105 105 105 105 105 105 105
	 Passthrough design where pin 1 of the QTH plug (header) is connected to pin 1 of QSH socket (receptacle). Each QTH-060 connector's signal is routed to onboard QSH-060 connector via onboard headers. Listed number adjacent to each header pin represents the associated Samtec QTH-QSH pin number. All traces are 50 Ohms impedance controlled. 	
Е	 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 planes and direct interface to the connector GND blades (tabs). 7- Exposed copper area are provided for GND probe soldering, if required. 8- Offering in-system rackmount low profile design test & measurement applications. 	
	9- Ease of interface with single channel and differential scope probes. 10- Fully compatible with Single Ended, -D, and Differential Pair, -DP, Samtec connector QSH QTH series as well as cable assemblies; HQCD, HQDP 11- Mates with any height and form factor QSH-060 QTH-060 connectors series such as -D -DP, -RA, -EM configurations.	Samtec QSH060
	12- Flying lead wire assembly may be used for board to board interface – See ordering information, see ZX100ACC-SS Electrical: Insertion loss > -2dB @3GHz Trace impedance: 50 Ω Operating Temperature: -55 °C to +125 °C	Samtec QTH060
D	Samtec Connector: Onboard Connector: QTH-060-xx 2rows x 60 pins/row QSH-060-xx 2rows x 60 pins/row Mates with: Any QSH-060-xx and QTH-060-xx formfactor Pitch: 0.0197" (0.50mm) pin to pin pitch	
_	Plating: Gold Flash Header: Pitch: 0.1" (2.54mm) pin to pin pitch Pin: Square 0.025" (0.635mm)	
с	Height: 0.24" (6mm) Plating: Gold Flash Application: Bringup, testing, emulation, development, modular design evaluations Height: 0.24" (6mm) Host onbeard QSH connector Host onbeard QSH connector Bringup, testing, emulation, development, modular design evaluations	۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ 1
	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 Crounded for improved pairs improved.	
	Grounded for improved noise immunity. Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and bottom sides of the module. Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and bottom sides of the module. Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and bottom sides of the module. Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and bottom sides of the module. Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and bottom sides of the module. Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and bottom sides of the module. Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and bottom sides of the module. Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and bottom sides of the module. Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and bottom sides of the module. Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and bottom sides of the module. Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and bottom sides of the module. Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and bottom sides of the module. Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and t	ZX103-RK package includes: Part number Quantity Description ZX103-RK 1 Samtec Breakout Adapter module ZX100ACC-SS 0 Flying leads wire assembly
В	ZX103-RK header pin assignments - J1: QTH060 J6: QSH60 ELV- Vehicle Directive (Directive 2000/EC) J5 8 16 24 32 40 48 96 104 112 Click Colspan="5">ELV- Vehicle Directive (Directive 2000/EC) Bottom Headers Metaders Settom 102 110 118 Bottom Headers ELV- Vehicle Directive (Directive 2000/EC) Bottom Headers ELV- Vehicle Directive (203/11/EC) Halogen Free per IEC-61249-2.21 : 2003 RoHs Directive 2011/65/EU	B ZX100ACC-SS site page for ordering the flying leads wire assembly Note ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated.
-	J4 12 20 28 36 44 52 60 68 76 84 92 100 108 116 J4 2 10 18 26 34 42 50 58 66 74 82 90 98 106 114 J3 7 15 23 31 39 47 55 63 71 79 87 95 103 111 119 Certificate of Compliance for Radioactive substances Top Headers	ZEBAX TECHNOLOGIES SANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 WWW.ZEBAX.COM
Α	J23111927354351596775839199107115Header pin numbers refer to the SAMTEC QSH - QTH connectors pin numbers - Pin 1 of QSH is connected to Pin 1 of QTH576573818997105113Notice	ASSEMBLY DRAWING ARE INCHES (MM). ROHS COMPLIANT ASSEMBLY DRAWING ITEM: ZX103-RK A DESCEPTION: Samtec in-system rackmount low
	ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." ZEBAX MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NO INFRINCEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. Information furnished is believed to be accurate and reliable. However, Zebax Technologies assumes no responsibility for the consequences of use of such information or for any infringement of patents or other rights of third parties that may result from its use. Specifications mentioned in this publication are subject to change without notice. This publication replaces all other information previously supplied. Zebax Technologies products are not authorized as in life support devices or systems.	DESCRIPTION: Description profile Breakout Adapter CHECKED: DRAWN: REVISSION: 1.0 MARINA MATTHEEW SHEET: 1 OF 1

