Product Name: ZX106-QTH090-ST Samtec Breakout Adapter HSMC **Product Description:** 90pins per row x 2 rows -- > 180 pins Samtec breakout adapter designed for test and measurement applications: servers or networking system - Onboard Samtec QTH-090 Samtec connector, mating with QSH-090 connector series. 1- Onboard Samtec QTH-090 Samtec connector, mating with any formfactor QSH-090 connector series as well as HSMC interfaces 2- Each QTH-090 connector's signal is routed to onboard header. 3- Listed number adjacent to each header pin represents the associated Samtec QTH pin number. 4- All traces are 50 Ohms impedance controlled. Samtec QTH090 4- Four layers PCB design, inner layers are GND planes. 5- One accessible GND test point, The test point is connected to module's GND planes and direct interface to the connector GND blade. -2.75"(70mm) 6- Offering Low profile design, targeting in-system rackmount or low profile design test & measurement applications. 7- Ease of interface with single channel and differential scope probes. 8- Fully compatible with Single Ended, -D, and Differential Pair, -DP, Samtec connector QSH QTH series as well as cable assemblies; HQCD, HQDP 9- Mates with any height and form factor QSH-090 connector series such as -D -DP, -RA, -EM configurations. 10- Flying lead wire assembly may be used for board to board interface - See ordering information, ZX100ACC-SS **Electrical:** Insertion loss > -2dB @3GHz Trace impedance: 50Ω Operating Temperature: -55°C to +125°C ZX106QTH simplified cross section diagram Samtec Connector: Inner layers GND planes Onboard Connector: QTH-090-xx 2rows x 90 pins/row Samtec QTH090 Mates with: Any QSH-090-xx formfactor Compliance: Pitch: 0.0197" (0.50mm) pin to pin pitch D ISO2001 certified Plating: Gold Flash RoHs - Lead Free Header: EU RoHS2 Pitch: 0.1" (2.54mm) pin to pin pitch GND test point UL E111594 document Pin: Square 0.025" (0.635mm) ELV- Vehicle Directive (Directive 2000/EC) Height: 0.24" (6mm) ZX100ACC-SS European Union Directive (203/11/EC) Plating: Gold Flash Flying leads wire assembly HOST PCB Halogen Free per IEC-61249-2.21: 2003 RoHs Directive 2011/65/EU Application: Bringup, testing, emulation, development, modular design evaluations WEEE Directive (2012/12/EU) Ground layers Please note - The GND test point is connector to 1- Top/Bottom GND fill 2- The inner layers ground planes Certificate of Compliance for Radioactive substances C Mates with: Samtec QSH090 QSH080(DP) - Also mates with HFHM2 HQCD, HQDP Certificate of Compliance for Asbestos Compatible with – differential Pair (DP), unused signal can be left unconnected or Grounded for improved noise immunity. Certificate of Compliance for Ozone Depleting Substances, ODS Interface with Altera's emulation boards/systems. Fully compatible with Altera HSMC Development board supporting Altera High Certificate REACH SVHC Speed Mezzanine HSMC interface ASP-122953-01 Certificate of Compliance RoHS EN CoC Signal assignments: Table below exhibits the assigned Samtec pin numbers associated with the headers for top and bottom sides of the module. ZX106-QTH090-ST package includes: **Quantity Description** Part number ZX106-QTH090 pin configuration - J1: QTH090 ZX106-QTH090-ST Samtec Breakout Adapter module Laver ZX100ACC-SS Flying leads wire assembly В ZX100ACC-SS site page for ordering the flying leads wire assembly 140 132 124 116 J2 162 146 138 130 122 114 106 Note - ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated. ZEBAX TECHNOLOGIES SANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 WWW.ZEBAX.COM ASSEMBLY DRAWING SPECIFIED DIMENSIONS ARE INCHES (MM). ITEM: ZX106QTH ROHS COMPLIANT **DESCRIPTION:** Samtec breakout adapter HSMC QTH 090 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 INFRINGEMENT, 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. CHECKED: DRAWN: REVISION: 1.0 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 system M. MARINA SLAVIK SHEET: 1 OF 1