Product Name: ZX131BSH-RK Samtec Breakout Adapter – in-system rackmount – low profile Product Description: 30pins per row x 2 rows -- > 60 pins Samtec breakout adapter designed for rackmount or low profile test and measurement applications; servers or networking hardware in any standard rackmount - Onboard BSH-030 Samtec connector, mating with BTH-030 connector series. 1- Each BSH-030 connector's signal is routed to onboard header. 2- Listed number adjacent to each header pin represents the associated Samtec BSH pin number. 3- All traces are 50 Ohms impedance controlled. 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 top and bottom GND fills. 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 BSH BTH series as well as cable assemblies; HQCD, HQDP Samtec BSH030 Ε 9- Mates with any height and form factor BTH-030 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, see ZX100ACC-SS **Electrical:** Insertion loss > -2dB @3GHz ZX131BSH-RK simplified cross section diagram Trace impedance: 50Ω Operating Temperature: -55 °C to +125 °C Inner layers GND planes Samtec Connector: Onboard Connector: BSH-030-xx 2rows x 30 pins/row Mates with: Any BTH-030-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) Height: 0.24" (6mm) HOST PCE Plating: Gold Flash Ground layers, Please note - The GND test point is connector to Application: Bringup, testing, emulation, development, modular design evaluations 1- Top/Bottom GND fill 2- The inner layers ground planes Mates with: Samtec BTH030 BTH020(DP) - Also mates with ANY one bank of BTH060, BTH090, BTH120: BTH020(DP) BTH040(DP) BTH060(DP) BTH080(DP) HFHM2 HQCD, HQDP Compatible with - differential Pair (DP), unused signal can be left unconnected or Grounded for improved noise immunity. ZX100ACC-SS ZX131BSH-RK package includes: **Signal assignments:** Table below exhibits the assigned Samtec pin numbers associated with the headers Compliance: Flying leads wire assembly for top and bottom sides of the module. Due to the module size, there are no listed reference designators ISO2001 certified Part number **Quantity Description** on this module. The side with "Zebax.com" and Module name, ZX131BSH-RK" is the top side. RoHs - Lead Free Samtec Breakout Adapter module ZX131BSH-RK EU RoHS2 ZX100ACC-SS Flying leads wire assembly UL E111594 document ELV- Vehicle Directive (Directive 2000/EC) ZX100ACC-SS site page for ordering the flying leads wire assembly ZX131BSH-RK Header pin configuration European Union Directive (203/11/EC) Halogen Free per IEC-61249-2.21: 2003 Note - ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated RoHs Directive 2011/65/EU WEEE Directive (2012/12/EU) ZEBAX TECHNOLOGIES Certificate of Compliance for Radioactive substances SANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 Certificate of Compliance for Asbestos WWW.ZEBAX.COM Certificate of Compliance for Ozone Depleting Substances, ODS Headers ASSEMBLY DRAWING SPECIFIED DIMENSIONS Certificate REACH SVHC ARE INCHES (MM). Header pin numbers refer to the SAMTEC BSH connector pin number Certificate of Compliance RoHS EN CoC ITEM: ZX131BSH-RK ROHS COMPLIANT In-system rackmount / low profile **DESCRIPTION:** ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." ZEBAX MAKES NO WARRANTIES, EXPRESSED, Samtec breakout adapter BSH-RK 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: REVISSION: 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 **MATTHEW** SHEET: 1 OF 1