

Product Name: ZX107HSMC-S Altera HSMC Mezzanine test board using Agilent Samtec LA Probe

Product Description: Altera HSMC bus interface breakout adapter using Samtec QTH / QSH (ASP-122952-01 and ASP-122953-01). Provides full access to ALL differential / single ended signals via onboard connectors designed to mate with Agilent Logic Analyzer Samtec probe, and Zebax Breakout adapters, ZX132.

ALL clocks are accessible via onboard IPEX connectors via standard 0402 SMD landing pads stuffing options. The IPEX stuffing options provides support for clock sourcing from Host, Mezzanine card, or external generator/scope for purpose of measurements, stimulus..

The D0 .. D3, PRSNTn , I2C, and JTAG signals are accessible via landing pads of 0402 SMD package's footprint.

- Designed in 6 layers PCBoard with improved signal integrity and crosstalk.
- All traces are designed with 50 Ω Ohms trace impedance. 100 Ω Ohms differential signaling.
- Accessible JTAG, D0, D1, D2, D3, D4 I2C-SCL, I2C_SDA signals via onboard 0402 SMD package footprint.
- 3 Pin header – Accessing +12V, 3.3V and GND planes
- GND test point for direct connection to inner GND planes / fills as well as Samtec connector's center GND stub..

Application: Bringup, testing, emulation, development, modular design evaluations

Mates with : Samtec QSH090 (DP) , QTH090 (DP). Fully compatible with Altera HSMC standard Mates wit HSMC Host interfacing with HSMC interface ASP-122953-01 ASP-122952-01. ZX107HSMC-S would be a mezzanine card to HSMC host or placed between Host and test board (Mezzanine board).

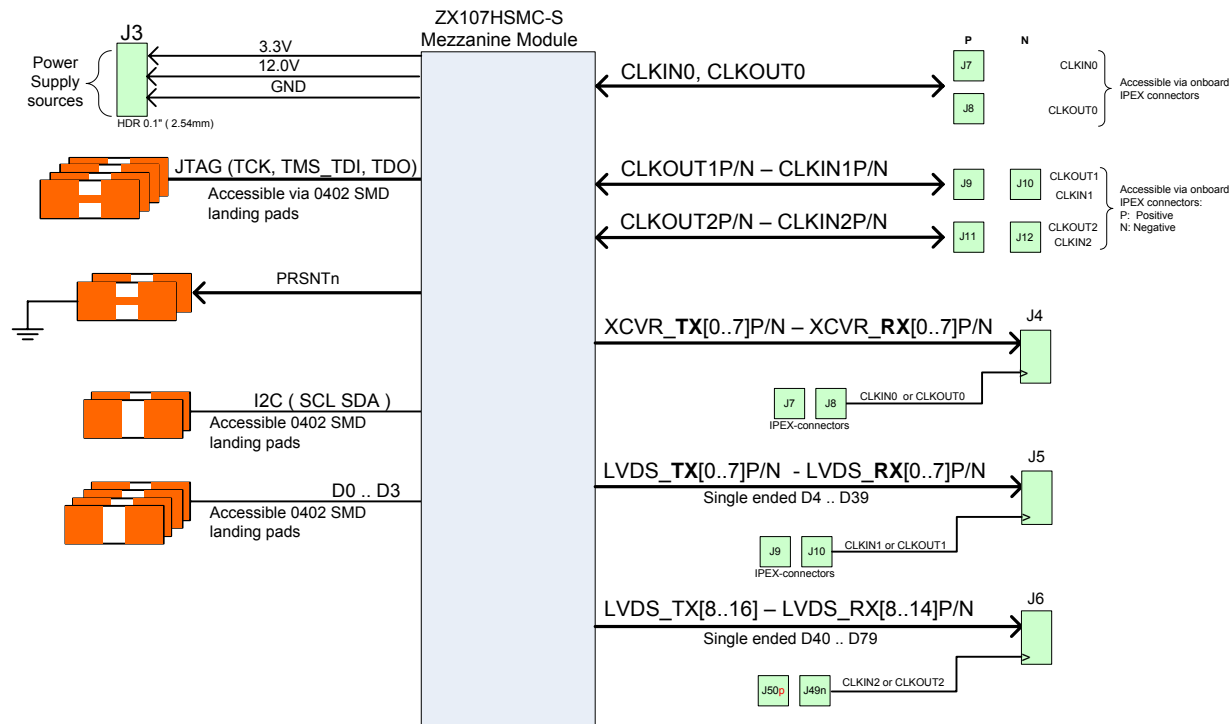
Using Zebax ZX132DS breakout adapter, user may use any scope probe for testing.

Agilent Samtec probe E5379A
Agilent Probes: E5378A E5379A E5385A

Pitch: 0.50mm (0.0197") High Speed connector

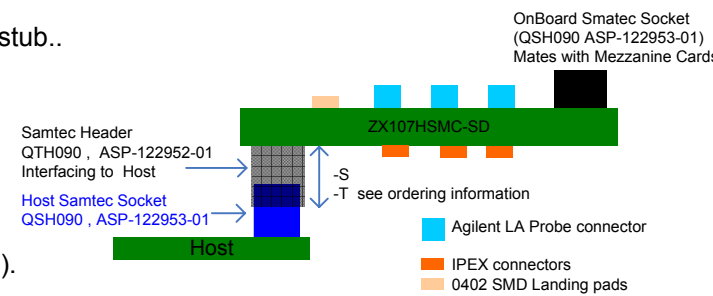
Headers: 0.1" (2.54mm) center, 0.025" SQ with 0.23" (6mm) post height

IPEX: Standard IPEX MHF 35u gold plating receptacle
Compatible with IPEX MHF, MHFII, Wison , Hirose U.FL
Part Number: 20279-001E on board.
Mates with: MHF, MHF II, or similar – I-PEX part number: 20278-1 20351-1 20311-011 20308-1 20312-011

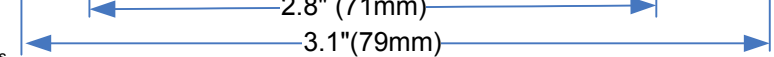
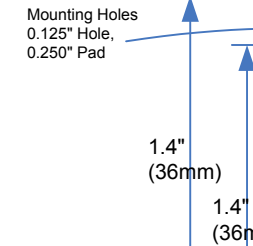


- Note:**
- 1- All Clocks are accessible via onboard IPEX connectors
 - 2- All Altera HSMC signals from Host (J1) are connected to the daughter card connector J2.
 - 3- PRSNTn, I2C, JTAG, D0..D3 signals are accessible via 0402 SMD landing pads.

ZX107HSMC-S-x-x Board side View

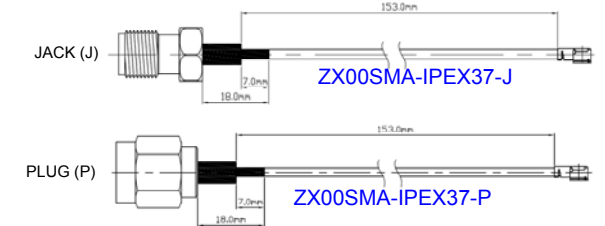


SEE PAGE 2 for listings of the signals



Zebax offers the following cable assemblies complementing the ZX107HSMC-S-x-x:

Part number	Description
ZX00SMA-IPEX37-J	SMA-Jack to IPEX coax cable assembly
ZX00SMA-IPEX37-P	SMA-Plug to IPEX coax cable assembly



ZX107HSMC-S-X-X Package includes:

Part number	Quantity	Description
ZX107HSMC-S-X-X	1	HSMC Mezzanine Module
ZX00SMA-IPEX37-X	2	SMA to IPEX-37 cable assembly

Ordering INFO:
Part Number
ZX107HSMC-S-X-X options

- J : Jack SMA to IPEX cable assembly
- P: Plug SMA to IPEX cable assembly
- S : 0.2861" (7.264mm) height QTH (Standard)
- T: 0.4043" (10.269mm) height QTH

-S & -T options mate with any height QSH connector and ASP-122953-01

Note
ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated.

ZEBAX TECHNOLOGIES
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SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT	ASSEMBLY DRAWING
ITEM: ZX107HSMC-S	
DESCRIPTION: Samtec breakout adapter Agilent QTH QSH 090 HSMC single / differential signaling	
CHECKED: M. MARINA	DRAWN: SLAVIK
REVISION: 1.0 SHEET: 1 OF 2	

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