

Product Name: ZX201 HDMI TPA-P -SE -DI test breakout adapter board Type A (STD)

Product Description: HDMI TPA-P-SE TPA-P-DI test breakout adapter board offering single ended, and differential probe interface on a single breakout adapter board. Multi-layer board designed with 90Ω differential trace impedance. Requires minimum 8Ghz scope (1080p) for proper clock jitter, skew, eye diagram and electrical test measurements.

HDMI **Type A** Plug with standard SMA, 0.1" (2.54mm) headers enabling both single ended and differential ended signal measurements.

Available EDID header for emulation/ monitoring purposes, see ZX202 for details

Application: Electrical test, Clock Jitter measurement, eye diagram, characterization test, Pre-certification full electrical test

Mates with : **HDMI type A Socket**
SMA Female onboard, mates with standard male SMA cable assembly
Header 0.1" center, 0.025" SQ with 0.32" (8.13mm) post height

Test reports: Using HDMI test procedure, test results using ZX201 on Source DUT:
HDMI_1080p
HDMI_720p

Test procedure: 1- Summarized HDMI electrical test method using Tektronix oscilloscope
2- R2 is installed as default, enabling streaming video from Source device, see circuit diagram, note 1

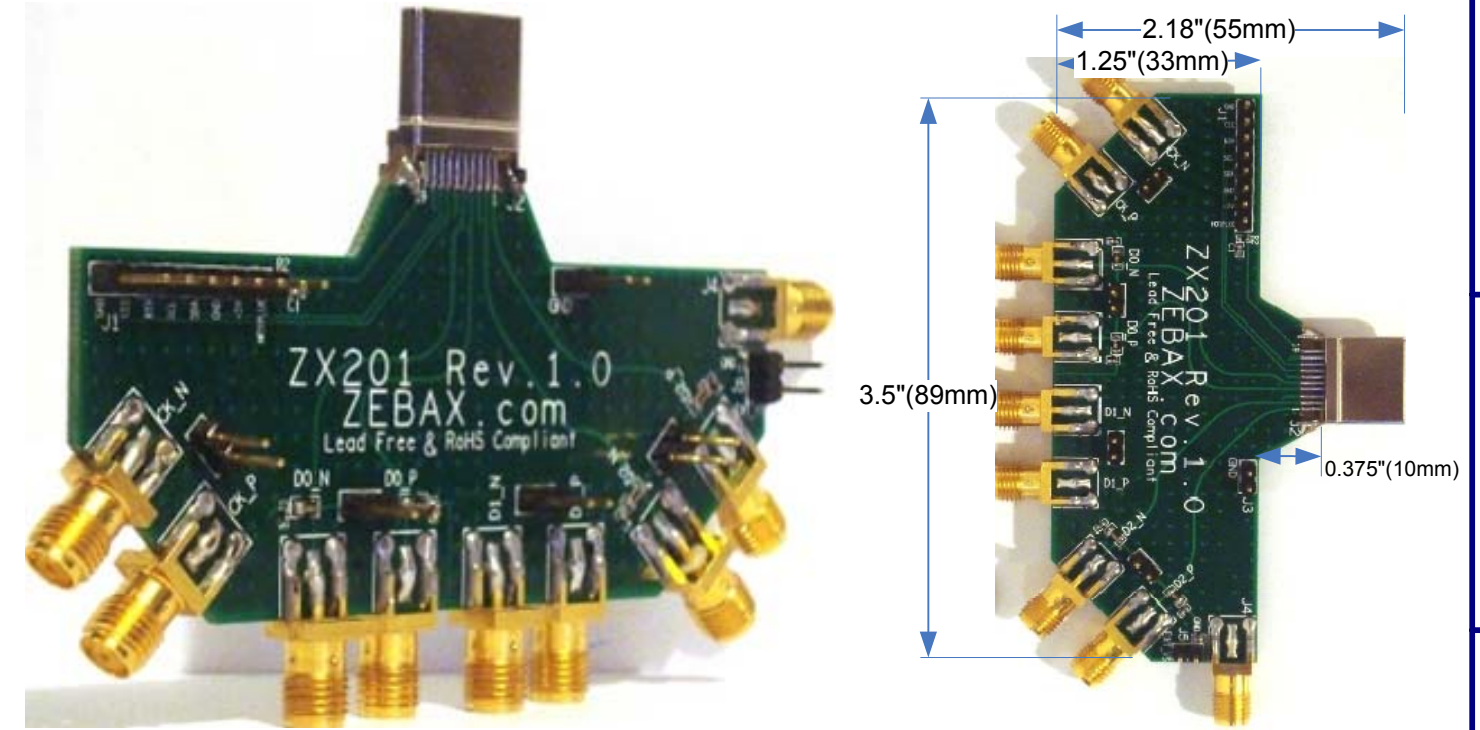
Pinouts: HDMI Plug, J2, and the header, J1, J3, J5 pin assignments listed below

J2	
Pin	Function
1	TXD2P
2	GND
3	TXD2N
4	TXD1P
5	GND
6	TXD1N
7	TXD0P
8	GND
9	TXD0N
10	TXCP
11	GND
12	TXCN
13	CEC
14	RSV
15	DDC_SCL
16	DDC_SDA
17	GND
18	+5V
19	HOTPLUG

J1	
Pin	Function
1	GND
2	CEC
3	RSV
4	DDC SCL
5	DDC_SDA
6	GND
7	+5VDC
8	HOTPLUG

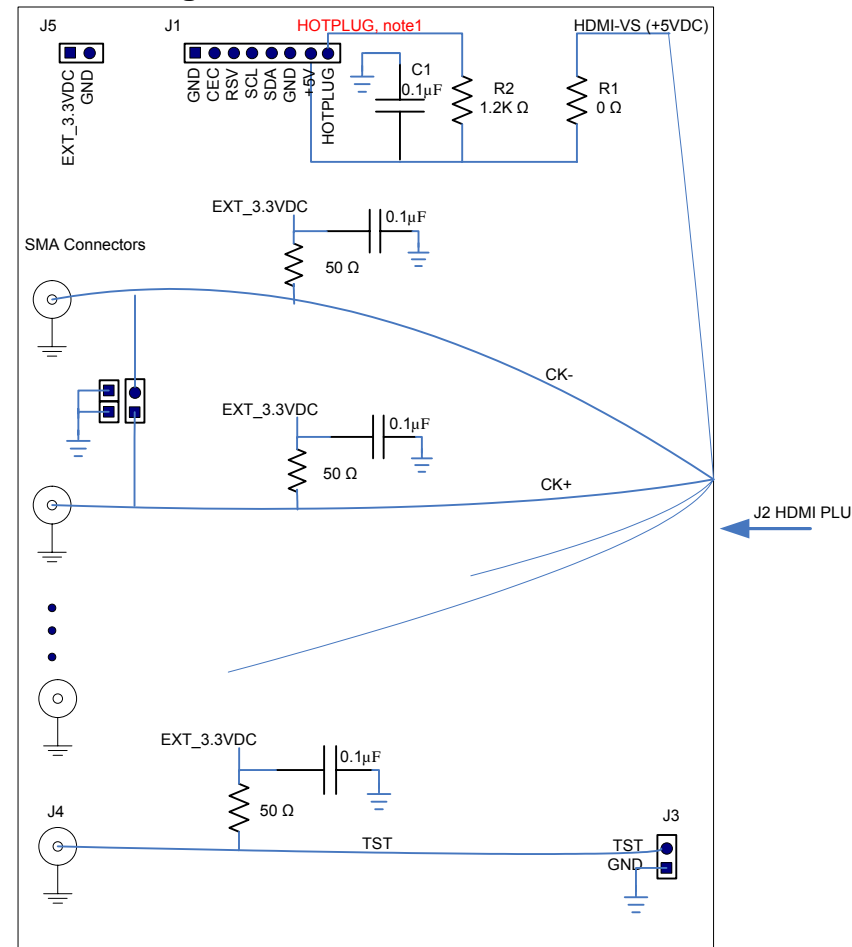
J3	
Pin	Function
1	GND
2	TST

J5	
Pin	Function
1	GND
2	EXT_3.3VDC



ZX201 HDMI PLUG Type A

Circuit Diagram



Note 1 – R2 is installed as default. It provides availability status of Sink device to Source, ensuring source device initiates streaming video.
Source = Laptop, Video Player, GPU, ..
Sink = Any HDMI receiver

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		
SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT	ASSEMBLY DRAWING	
	ITEM: ZX201	
DESCRIPTION: HDMI TPA-P-SE TPA-P-DI test breakout adapter board Type A - Single Differential		
CHECKED: M. MARINA	DRAWN: SLAVIK	REVISION: 1.0
		SHEET: 1 OF 1

Notice
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. 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.