MAXCOAX2STP-HSD Coaxial to Shielded-Twisted-Pair (STP) Cable Adapter Kit

For: Evaluation of Maxim Serializers/ Deserializers with STP Cable

General Description

The MAXCOAX2STP-HSD coaxial-to-STP cable adapter kit allows operation of coax evaluation kits (EV kits) for Maxim serializer/deserializer products with STP cables assembled with Rosenberger STP connectors. See Table 1 for a list of products currently supported.

The adapter kit includes one Serializer adapter board with two coax FAKRA female connectors and a Rosenberger male STP connector; one Deserializer adapter board with two coax FAKRA female connectors and a Rosenberger male STP connector; and a 2m STP cable assembled with two Rosenberger female STP connectors. The photo in Figure 1 shows the adapter kit components.

Benefits

- Allows Utilization of Coax EV Kits for Evaluating Operation with STP Cables, Eliminating Need to Purchase a Set of STP Evaluation Boards
- Only One Adapter Kit Needed to Use with Coax EV Kits for Different Products

Quick Start

Setup

To install the adapter:

1) Connect the Serializer adapter board to the serializer EV kit.
2) Connect the Deserializer adapter board to the deserializer EV kit.
3) Connect the STP cable to the two adapter boards, as shown in Figure 2.

Operation

To operate the coax EV kits in STP mode, refer to the configuration setting in the corresponding EV kit software and the respective IC data sheet.

Ordering Information ***appears at end of data sheet.***



Figure 1. Photo of MAXCOAX2STP-HSD Adapter Kit Components

19-7026; Rev 0; 7/14

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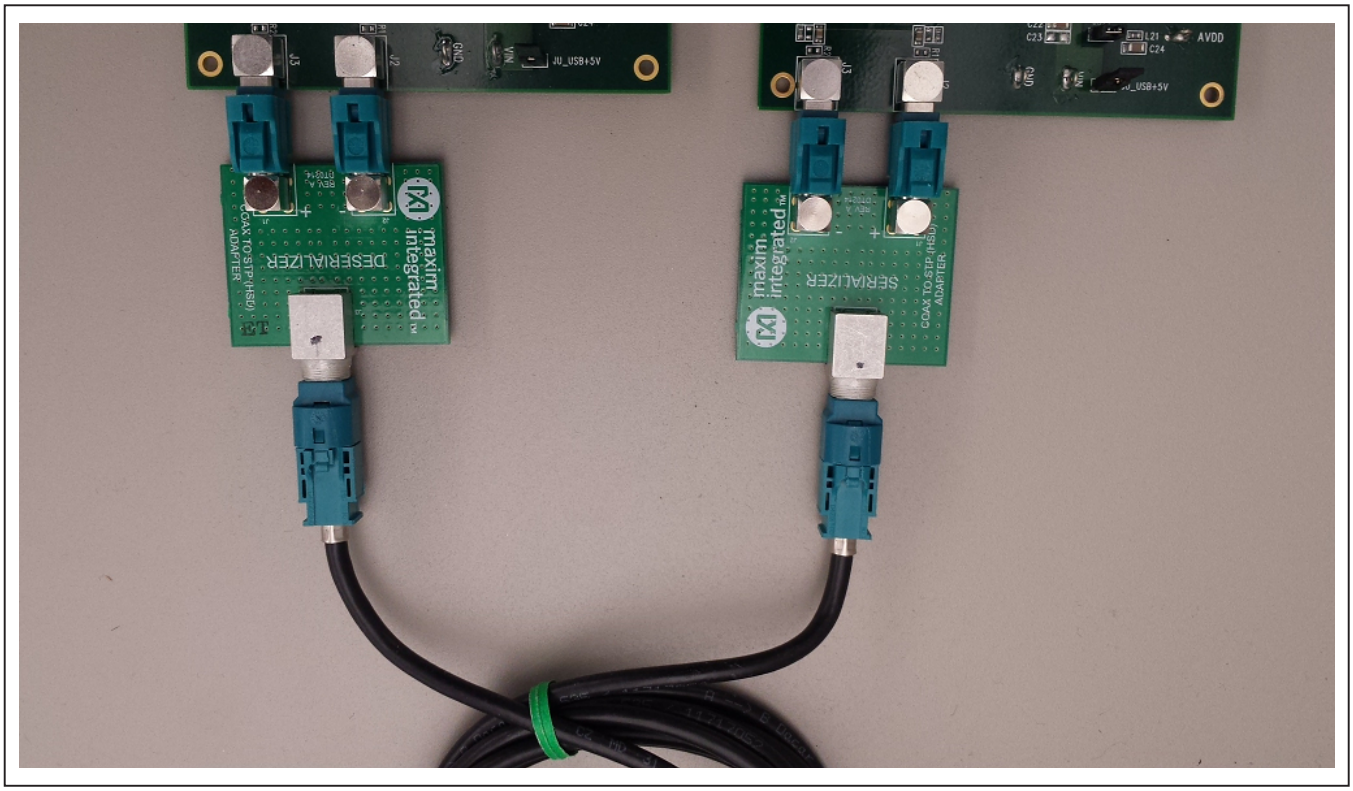

Figure 2. Photo of MAXCOAX2STP-HSD Adapter Kit Setup

Component List

DESIGNATION	QTY	DESCRIPTION
—	1	Serializer adapter board
—	1	Deserializer adapter board
—	4	FAKRA jack right-angle female connector for PCB Pasternack PE44650Z
—	2	High-speed automotive male connector Rosenberger D4S20F-40MA5-Z
—	2	STP Rosenberger cable, 2m MD Electronik PT1482

Table 1. Maxim Products Supported by Adapter Kit

PART	DESCRIPTION
MAX9240A	6.25MHz to 100MHz, 25-bit GMSL deserializer for coax or STP cable with line fault detect
MAX9240ACOAXEVKIT	Evaluation kit for the MAX9240A with FAKRA coaxial cable
MAX9271	16-bit GMSL serializer with coax or STP cable drive
MAX9271COAXEVKIT	Evaluation kit for the MAX9271 with FAKRA coaxial cable
MAX9272A	28-bit GMSL serializer with coax or STP cable
MAX9272ACOAXEVKIT	Evaluation kit for the MAX9272A with FAKRA coaxial cable
MAX9273	22-bit GMSL serializer with coax or STP cable drive
MAX9273COAXEVKIT	Evaluation kit for the MAX9273 with FAKRA coaxial cable
MAX9275	3.12Gbps GMSL serializers for coax or STP output drive and parallel input
MAX9275COAXEVKIT	Evaluation kit for the MAX9275 with FAKRA coaxial cable
MAX9276	3.12Gbps GMSL deserializers for coax or STP input and parallel output
MAX9276COAXEVKIT	Evaluation kit for the MAX9276 with FAKRA coaxial cable
MAX9277	3.12Gbps GMSL serializers for coax or STP output drive and LVDS input
MAX9277COAXEVKIT	Evaluation kit for the MAX977 with FAKRA coaxial cable
MAX9278	3.12Gbps GMSL deserializers for coax or STP input and LVDS output
MAX9278COAXEVKIT	Evaluation kit for the MAX978 with FAKRA coaxial cable
MAX9279	3.12Gbps GMSL serializers for coax or STP output drive and parallel input
MAX9279COAXEVKIT	Evaluation kit for the MAX9279 with FAKRA coaxial cable
MAX9280	3.12Gbps GMSL deserializers for coax or STP input and parallel output
MAX9280COAXEVKIT	Evaluation kit for the MAX9280 with FAKRA coaxial cable
MAX9281	3.12Gbps GMSL serializers for coax or STP output drive and LVDS input
MAX9281COAXEVKIT	Evaluation kit for the MAX9281 with FAKRA coaxial cable
MAX9282	3.12Gbps GMSL deserializers for coax or STP input and LVDS output
MAX9282COAXEVKIT	Evaluation kit for the MAX9282 with FAKRA coaxial cable
MAX9288	3.12Gbps GMSL deserializers for coax or STP input and MIPI CSI-2 output
MAX9288COAXEVKIT	Evaluation kit for the MAX9288 with FAKRA coaxial cable
MAX9290	3.12Gbps GMSL deserializers for coax or STP input and MIPI CSI-2 output
MAX9290COAXEVKIT	Evaluation kit for the MAX9290 with FAKRA coaxial cable

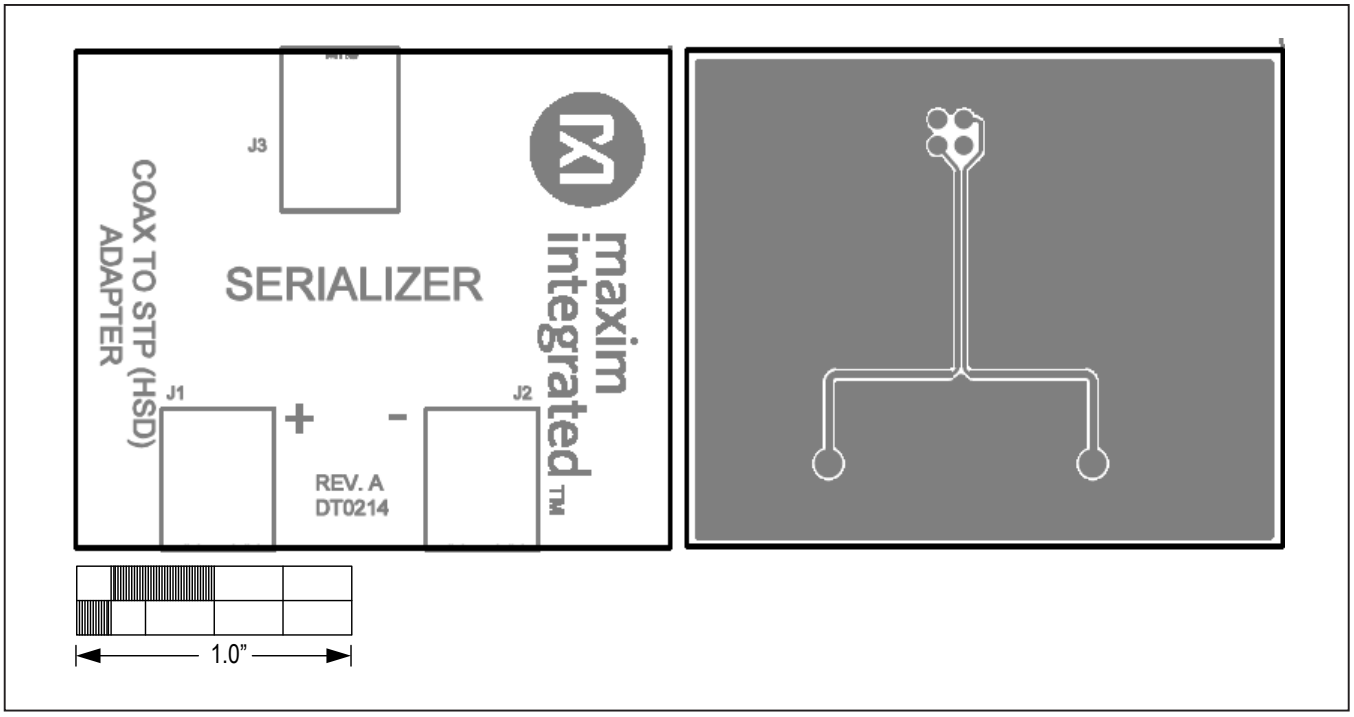

Figure 3. Coax-to-STP Adapter Board (Serializer)

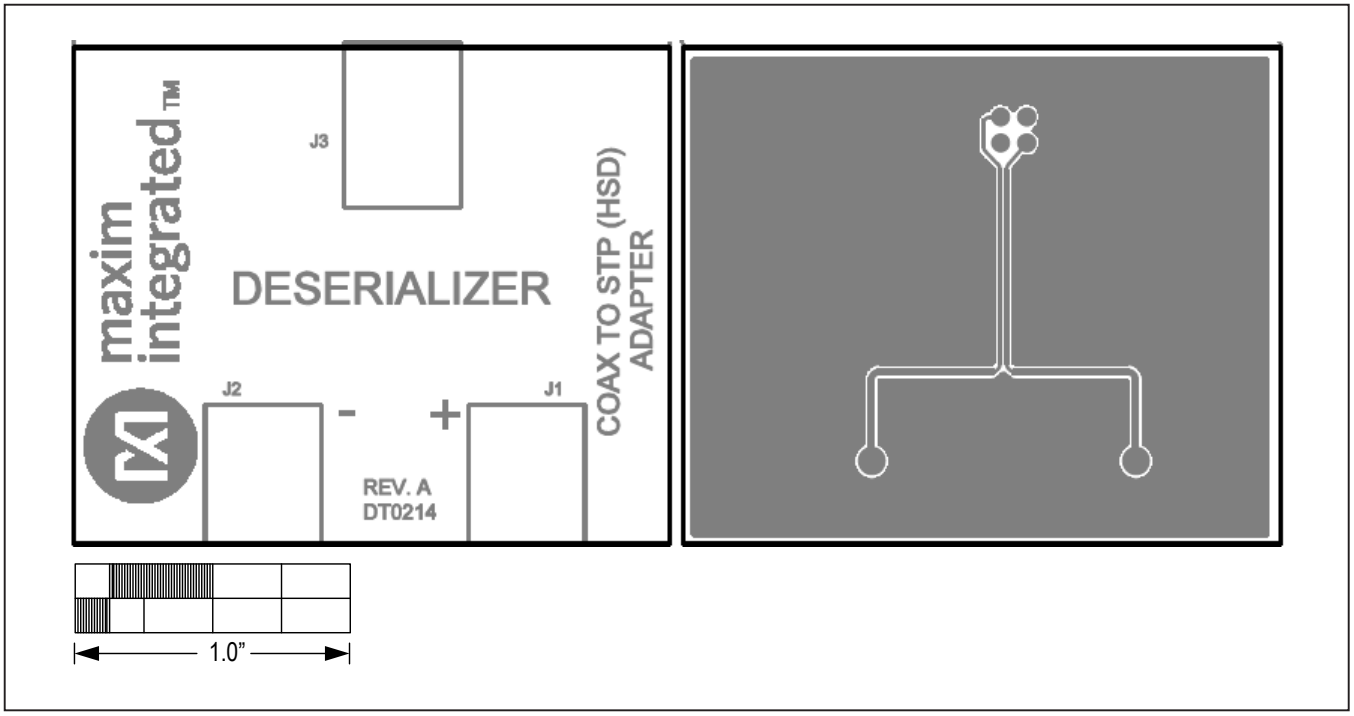

Figure 4. Coax-to-STP Adapter Board (Deserializer)

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Ordering Information

PART	TYPE
MAXCOAX2STP-HSD#	Adapter Kit

#Denotes RoHS compliant.

Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
0	7/14	Initial Release	—

For pricing, delivery, and ordering information, please contact Maxim Direct at 1-888-629-4642, or visit Maxim Integrated's website at www.maximintegrated.com.

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