

LT8641SXE --- Product Brief

HDMI1.4/2.0 4-In 1-Out Switch

Features

- 4 inputs, 1 output HDMI2.0 links
- Compliant with HDMI1.4 and HDCP1.4
- HDMI input resolution up to 4Kx2K@30Hz
- HDMI output resolution up to 4Kx2K@30Hz
- Audio output support 8 channel I2S audio outputs or both 6 channel I2S and SPDIF
- Supports 3D format
- Supports CEC
- Supports one channel ARC function on HDMI link

Description

The LT8641SXE is a Transition Minimized Differential Signaling (TMDS) switch that enables the connection of multiple High-Definition Multimedia Interface (HDMI) source devices to high-definition television (HDTV). Based on the HDMI 1.4 specification, LT8641SXE is an advanced TMDS switch that delivers a cost-effective method for manufacturers to add additional HDMI ports to their HDTV. Multiple HDMI ports allow consumers to connect variety HDMI-enabled sources to their HDTV. It supports HDCP 1.4 specifications, and Audio Return Channel function.

The LT8641SXE is a four-to-one (4:1) switch ideally suited for use in the back panel of HDTV and A/V receivers, allowing consumers to connect multiple HDMI-enabled devices such as high-definition DVD players, set top boxes and game consoles. The LT8641SXE switch selects a single HDMI or Digital Visual Interface (DVI) signal from the four receiver ports and generates HDMI/DVI audio/video output, as well as DDC/HPD switching, in full compliance with the HDMI and DVI specifications. The LT8641SXE also acts as a HDMI receiver. It extracts the digital audio information from the HDMI packet, and recovers digital audio to I2S/SPDIF interface. So it can be applied to the multi-channel audio amplifier for best audio effect. This feature can enable an external HDMI switching box acts as a home entertainment box that can output up to 8-channel high quality audio signal for the best audio effect.

Applications

- Embedded TV Switch
- External HDMI Switch
- Digital Audio Amplifier
- Etc.

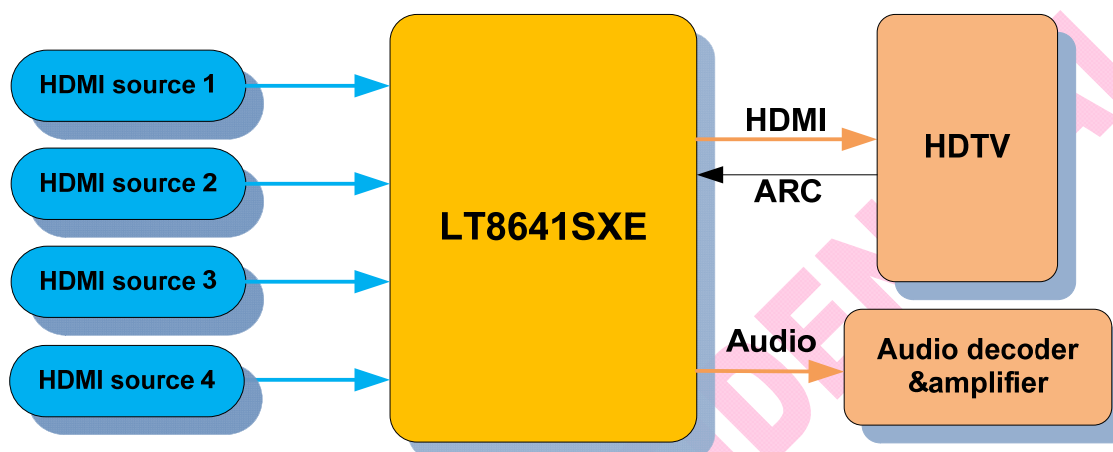


Figure 1. Application Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT8641SXE	-40° C to +85° C	12mm x 12mm TQFP100	Tape and Reel

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